

Brandeis

UNIVERSITY BULLETIN

College of Arts & Sciences

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Brandeis University

**The
College
of Arts and
Sciences
1976-1977**

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"It must always be rich in goals and ideals, seemingly attainable but beyond immediate reach . . .

"It must become truly a seat of learning where research is pursued, books written, and the creative instinct is aroused, encouraged, and developed in its faculty and students.

"It must ever be mindful that education is a precious treasure transmitted—a sacred trust to be held, used, and enjoyed, and if possible strengthened, then passed on to others upon the same trust."

—from the writings of
LOUIS DEMBITZ BRANDEIS (1856-1941)
on the goals of a university.



"Brandeis will be an institution of quality, where the integrity of learning, of research, of writing, of teaching, will not be compromised. An institution bearing the name of Justice Brandeis must be dedicated to conscientiousness in research and to honesty in the exploration of truth to its innermost parts.

"Brandeis University will be a school of the spirit—a school in which the temper and climate of the mind will take precedence over the acquisition of skills and the development of techniques.

"Brandeis will be a dwelling place of permanent values—those few unchanging values of beauty, of righteousness, of freedom, which man has ever sought to attain.

"Brandeis will offer its opportunities of learning to all. Neither student body nor faculty will ever be chosen on the basis of population proportions, whether ethnic or religious or economic."

DR. ABRAM L. SACHAR, Brandeis' first president, at ceremonies
inaugurating the University, October 8, 1948

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Academic Calendar 1976-1977

Fall Term

Wednesday	September 1	New students arrive. General orientation begins 7 P.M.
Thursday	September 2	Special student and part-time student orientation (A.M.) and registration (P.M.) Freshman registration. Transfer student registration 7 P.M. Math and English Placement examinations.
Friday	September 3	Returning students arrive. Returning student registration. Language Placement examinations.
Monday	September 6	Labor Day—Holiday.
Tuesday	September 7	Returning student registration. Last day to register for all students for Fall Term 1976-77 without payment of late registration fee. Freshman Writing Seminar sectioning. General sectioning.
Wednesday	September 8	First day of instruction—No section meetings in larger courses until announced by instructor. Late registration period for all students begins. Filing period for Course Enrollment Cards begins.
Tuesday	September 21	Last day for filing Course Enrollment Cards for all students without payment of late filing fee. Last day on which students may make study program changes for Fall Term without Committee on Academic Standing approval. Late registration period ends.
Monday	October 4	Yom Kippur—Holiday.
Wednesday	October 6	Brandeis Monday.
Wednesday	October 20	Grades for work incomplete in the previous May (Spring Term 1975-76) due in the Office of the University Registrar.
Wednesday	October 27	Midterm grades due.
Thursday	November 25 and	No University exercises, Thanksgiving Holiday.
Friday	November 26	
Friday	December 10	Last day of instruction.
Monday	December 13 and	Study period.
Tuesday	December 14	
Wednesday	December 15	Midyear examinations begin.
Tuesday	December 21	Midyear examinations end.
Monday	January 3 (1977)	Fall Term grades due in the Office of the University Registrar.

Spring Term

Wednesday	January 26	Returning students arrive. Returning student registration begins 2 P.M. New student registration at 10 A.M.
Thursday	January 27	First day of instruction. Filing period for Course Enrollment Cards begins.
Friday	January 28	Last day to register for all students for Spring Term 1976-77 without payment of late registration fee.
Monday	January 31	Late registration period for all students begins.
Wednesday	February 9	Last day for filing Course Enrollment Cards for all students without payment of late filing fee. Last day on which students may make study program changes for Spring Term without Committee on Academic Standing approval. Late registration period ends.
Friday	March 11	Grades for work incomplete at the end of the Fall Term due in the Office of the University Registrar.
Friday	March 18	Midterm grades due.
Friday	April 1	Spring Recess begins after last class.
Monday	April 11	Classes resume.
Wednesday	May 4	Last day of instruction.
Thursday	May 5 and	Study period.
Friday	May 6	
Monday	May 9	Final examinations begin.
Wednesday	May 11	Senior grades for courses <i>without final examinations</i> due 10 A.M. in the Office of the University Registrar.
Friday	May 13	Final examinations end.
Monday	May 16	Senior grades for all courses <i>with final examinations</i> due 10 A.M. in the Office of the University Registrar.
Sunday	May 22	Commencement.



Breaking New Ground

Founded in 1948, amidst the post-World War II explosion of knowledge, Brandeis University literally began at the beginning—at the edge of an educational frontier—but is regarded today as one of the finest small, private research universities in the United States.

Named for the illustrious Supreme Court Justice Louis Dembitz Brandeis, whose far-reaching social vision advanced the welfare of his country, Brandeis is the first Jewish-sponsored, nonsectarian institution of higher learning in America. It is built on the faith in our basic heritage in the humanities, the sciences, the social sciences and the creative arts.

An unswerving commitment to excellence earned early recognition for the young university. Brandeis achieved accreditation in the shortest possible time (1953), and received Phi Beta Kappa recognition just 13 years after it was founded—the youngest institution so honored in over 100 years. The Ford Foundation, assessing the Brandeis record, buttressed its belief in the Brandeis potential during the 1960's with two major challenge grants for academic excellence—an accolade accorded to only five universities in the nation.

The giant multi-universities offer superb facilities and a faculty often too isolated by research from their students. Smaller institutions offer dedicated teachers who, for lack of time or facilities, have stopped doing research. The best of both models meet in only a handful of small schools in the United States. Brandeis is one of them.

Of the 2,000 accredited colleges and universities in the nation, about 100 are also known as “research centers.” Brandeis is among this select group. The Florence Heller Graduate School for Advanced Studies in Social Welfare was recently ranked fourth in the country among schools of social work. The Philip W. Lown Center for Near Eastern and Judaic Studies has been named among the best graduate studies programs in Judaica in North America. And the multi-million dollar Rosenstiel Basic Medical Sciences Research Center has attracted some of the top scientists in the world to probe into areas associated with the study of heart disease and cancer.

The College of Arts and Sciences

A Brandeis education encourages personal fulfillment, but only within the framework of social responsibility. Men and women must be able to cope with the complexities of a technological civilization, yet they must be guided by the values of a long historical heritage; self-sufficient to the point of intellectual independence, yet fully prepared to assume the responsibilities society imposes.

Equipped by a liberal arts education, the individual sees reality as a whole with many intricately connected parts. That individual rejects the idea that there is only one truth, one perspective, one redeeming set of values. Study of the liberal arts is a time of inquiry, honest skepticism, and evolution of the intellect. Paradoxically, a liberal education—

despite its lack of specialization—becomes sound preparation for a world that constantly makes old learning obsolete.

Brandeis, therefore, attaches prime importance to the liberal arts curriculum. It is designed to offer full academic opportunities for those students planning to pursue graduate or professional studies, as well as those whose educational objective is the baccalaureate degree.

The Graduate School of Arts and Sciences

The Graduate School of Arts and Sciences is designed to educate broadly as it trains professionally. It offers courses of study leading to the master's and doctor's degrees. Graduate areas include anthropology, biochemistry, biology and photobiology, biophysics, chemistry, comparative history, contemporary Jewish studies, English and American literature, history of American civilization, literary studies, mathematics, Mediterranean studies, music, Near Eastern and Judaic studies, philosophy and history of ideas, physics, politics, psychology, sociology, and theater arts.

For full information, see the Bulletin of the Graduate School of Arts and Sciences.

Rosenstiel Basic Medical Sciences Research Center

The Lewis S. Rosenstiel Basic Medical Sciences Research Center was made possible in 1968 through the gift of the late Lewis S. Rosenstiel, who was a Brandeis Fellow. The Center has established research programs in the basic medical sciences embracing work in biochemistry, biology, chemistry, microbiology, physics, and psychology. Staff members are jointly appointed to the Brandeis faculty basic science departments. The Center invites participation of distinguished scholars and medical scientists, offers hospitality to younger researchers at the undergraduate and fellowship level, sponsors symposia and colloquia, and underwrites scholarly publications.

The Basic Medical Sciences Research Center contains sophisticated scientific equipment and facilities. Through cooperative programming, both with departments at Brandeis and in the Boston area, the Center has broadened the scope of basic medical science research offerings at Brandeis. Grants from such agencies as the National Science Foundation, National Institutes of Health, and American Cancer Society, among others, support research programs in the Rosenstiel Center.

The Rosenstiel Center sponsors the annual presentation of the Lewis S. Rosenstiel Award, given to recognize distinguished work in basic medical research. Created in 1971 to also honor Mr. Rosenstiel, the award consists of a handsome bronze medallion and a stipend of \$5,000.

The Florence Heller Graduate School for Advanced Studies in Social Welfare

The Florence Heller Graduate School for Advanced Studies in Social Welfare is a professional school established by Brandeis University to provide an educational program directed toward leadership responsibility in the field of social welfare. The School was made possible by an initial endowment from the late Mrs. Florence G. Heller of Chicago. It was organized in 1959 following careful study by the President, the Administration, and the Board of Trustees of Brandeis University after consultation with a distinguished panel of social work educators and social welfare authorities.



The School is housed in the Florence Heller Building complex which includes the Benjamin Brown Research Building. These buildings contain classrooms, faculty offices, student rooms, and research facilities.

The School offers an educational program of study leading to the Ph.D. degree. Courses cover social policy analysis, applications of economic analysis to social policy issues, applied social research, and social planning. Specialized courses are offered in a number of fields including income maintenance and manpower development, health planning, gerontology, mental health and mental retardation, and alcoholism. Students are admitted either with or without a previous master's level graduate degree. Minimum full-time residence requirements are one year for students entering with a prior graduate degree and two years for others. The normal expectation, however, is for at least one additional year of full-time residence beyond these minimum requirements.

In addition to its training program, the School conducts an active program of policy-oriented research related to its broad range of social welfare interests. Research projects are interdisciplinary in character and usually involve collaborative activity between faculty and advanced students.

Full information is available in the Bulletin of the Heller Graduate School.



Requirements for the Degree

Students are required to complete 32 semester courses and to be in residence for four academic years. The period of residence may be shortened through work given credit by other universities and programs recognized by Brandeis.

Students must, in any case, be in residence at Brandeis at least two academic years and complete a minimum of 16 semester courses here.

The student is required to engage in a program of courses distributed through the three schools outside his or her field of concentration and to pursue a coherent program of study within a field of concentration. The distribution requirements embrace major elements in the four schools: Creative Arts, Humanities, Science, and Social Science.

English Composition Requirement

In the first year, an entering student is required to take a Freshman Writing Seminar unless exempted. Exemption is based on high school records, essays, Advanced Placement, SAT, and Achievement Test scores or equivalent work taken elsewhere. In addition, students may be exempted on the basis of an essay examination scheduled during Orientation Week. A few students may be required to take a non-credit preparatory writing course prior to the Writing Seminar.

Foreign Literature Requirement

The Foreign Literature Requirement for the A.B. degree consists of the successful completion of one semester's study of representative works, fiction or nonfiction, from one non-English-speaking culture *in the original language*.

Incoming students who can demonstrate completion of work equivalent to this requirement before entering Brandeis by means of a score of 4 or 5 on the Advanced Placement Test, or a score of 720 on a CEEB achievement test after three years of high school study, or by a satisfactory score on a placement test administered by the department, only at the time of initial matriculation at Brandeis, shall be deemed to have satisfied the Foreign Literature Requirement.

Students who satisfy the requirement by means of an Advanced Placement score of 4 or 5 shall be accorded appropriate credit toward the Brandeis degree.

Students are urged to begin fulfilling the Foreign Literature Requirement as soon as they are able to either in the fall or spring of their first year. Further, students are urged to fulfill the Requirement without interrupting their sequence of courses since continuity of study is pedagogically essential.

Distribution Requirement

Each student will be required to complete two semester courses in each of the schools outside his or her school of concentration. Alternatively, a student may substitute a University Course, approved by the appropriate School Council, for one of the two semester courses in any or each of the other schools.

Courses numbered in the 90's will not satisfy the distribution requirements.

Other Freshman Requirements

Freshmen who feel that the placements in specific courses which have been assigned to them at registration are not appropriate, should consult the advising chairman of the department concerned.

Elective Courses

A freshman may not enroll in courses numbered 90 or above unless he or she presents to the Registrar the written consent of the instructor in the course, the chairman of the department, and the faculty adviser, or is placed in a higher numbered course in accordance with existing University procedures.

Physical Education

Every freshman must satisfy the Physical Education requirement unless exempted. These requirements include participating two hours per week in class for two semesters and a required swimming test. All physical education classes are coed. Included in the program are activities such as flag football, basketball, volleyball, bowling, tennis, golf, badminton, softball, swimming, squash, karate, fencing, body mechanics, folk dancing, cycling, ice skating, figure skating, coaching courses in basketball, baseball and soccer plus a course in basketball officiating.

Upperclassmen who have completed their physical education requirement may elect to take additional P.E. courses.

Concentration Requirements

General Requirements

To obtain a bachelor's degree in the College of Arts and Sciences, students must complete the requirements of a field of concentration. Before the end of the freshman year each student will choose a provisional field of concentration after consultation with a faculty adviser in that department. Entering students who have reached a tentative decision regarding their future field of interest should elect the basic introductory course in this area in their freshman year and cover more of the groundwork in the elective courses of their sophomore year.

Certain departments permit qualified students to substitute a limited number of related courses in other fields for their concentration requirements. Such an option would permit a student to pursue an area of study not represented by a single department. This program is open only to students able to present a purposeful and coherent course of study. Before approval, individual requests are subject to rigorous examination by the student's department. Students should consult individual departmental listings.

Independent Concentration

In choosing a concentration, a student may propose a program that combines academic work in several departments. The proposal requires the support of at least two departments and of one member of each supporting department who will agree to serve on the student's Concentration Committee.

Students who wish to develop a proposal for an independent concentration should consult the Office of the Dean of the College.

Completion of a Field of Concentration

To enroll in courses fulfilling his or her concentration requirements, a student must have received a C minus or better in prerequisite courses.

A 2.0 (C) average is normally required in courses offered for completion of requirements for concentration.

Degrees with Honor

Students whose grade point average at the end of the junior year is 3.0 or above in their field of concentration may petition the department concerned for permission to work for honors in their field of concentration. Departmental distinction is awarded by each department or interdepartmental committee. The levels of distinction are "honors," "high honors," or "highest honors."

The awards of *cum laude* and *magna cum laude* will be based on a grade point average set by the faculty.

The award of *summa cum laude* will be based upon a grade point average set by the faculty and on the award of distinction in the field of concentration.

In addition, the Schools of Science and Humanities require an average of 2.0 in all non-concentration courses.

School of Creative Arts

Requirements for concentration in each department are listed on the pages indicated.

	<u>Page</u>
1. Fine Arts	85
2. Music	103
3. Theater Arts	123

Candidates for honors must have the approval of the appropriate department.

School of Humanities

The School of Humanities offers the undergraduate a systematic introduction to our literary and philosophical heritage. Requirements for concentration and honors are listed on the pages indicated.

	<u>Page</u>
1. Classics	75
2. Comparative Literature	77
3. English and American Literature	82
4. English and Classics	85
5. French Language and Literature	87
6. German Language and Literature	89
7. Italian Language and Literature	77
8. Linguistics	98
9. Mediterranean Studies	102
10. Near Eastern and Judaic Studies	105
11. Philosophy and History of Ideas	108
12. Russian Language and Literature	117
13. Spanish Language and Literature	122

School of Science

The School of Science provides the basic scientific training to qualify students for entry into graduate school or for work at the intermediate level in their scientific fields. Students are encouraged to take such courses outside the School of Science as will best broaden and further their intellectual growth. Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. Biochemistry	70
2. Biology	71
3. Chemistry	73
4. Computer Science	78
5. General Science	88
6. Mathematics	99
7. Physics	111

School of Social Science

Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. African and Afro-American Studies	65
2. American Studies	66
3. Anthropology	68
4. Economics	80
5. History	90
6. Latin American Studies	96
7. Politics	113
8. Psychology	115
9. Sociology	119

A student in the School of Social Science who is a candidate for a degree with honors will, in addition to the designated requirements for the several fields, also enroll in senior research (99). Candidates for honors must have the approval of the appropriate department. One reader of a senior thesis must come from outside the department of concentration.

B.A.—M.A. Program

Brandeis offers to outstanding undergraduates the unusual opportunity to obtain the post baccalaureate M.A. degree, along with the B.A.

The M.A. requires the equivalent of one full year of graduate study at Brandeis University, usually computed at a minimum of 24 semester hours of approved study. Certain departments may, at their option, require more than 24 hours of graduate study. For full information see the Graduate School catalog.

Four-year B.A.—M.A. degrees have been granted to date in biochemistry, chemistry, mathematics, NEJS, politics, physics, psychology and theater arts. All graduate departments may offer the B.A.—M.A. opportunity to students of outstanding ability who are able to fulfill their requirements.

The four-year B.A.—M.A. program offers undergraduates a challenging prospect in maintaining honor grades in a carefully planned, extra full and rigorous course of study. To have an advanced degree on graduation is, however, of great academic, professional and economic advantage.

Pre-Professional Training

On the premise that a liberal arts education is the best preparation for professional training, the College of Arts and Sciences does not recommend highly-specialized courses for pre-professional students. And since the Brandeis curriculum does not develop patterns of courses with specific vocational goals in mind, Brandeis students receive a broad education in the liberal arts and sciences to prepare them for further study at the graduate level.

Pre-medical and Pre-dental Students

Medical and dental schools seek candidates with a strong foundation in the natural sciences, highly developed communication skills, and a solid background in the social sciences and humanities. They limit their absolute requirements for admission to a relatively few courses, in order to allow students the latitude for developing individualized undergraduate programs of study. This means that students may concentrate in any field of interest to them. As long as a student does well in the required courses, his or her field of concentration is not a significant factor in medical (or dental) school admission.

Virtually every medical and dental school in the country requires a year of biology, a year of general chemistry, a year of organic chemistry and a year of general physics—all with laboratory. Most schools also require a year of college English. A few schools have additional requirements, e.g. a foreign language, a social or behavioral science course, or an additional biology or chemistry course. Mathematics courses are either required or strongly recommended by a substantial number of schools. Since Brandeis students generally take calculus as a prerequisite for physics, they satisfy the most stringent mathematics requirement.

The following Brandeis courses satisfy the basic requirements.

1) General Chemistry

Lecture: Chem. 10(a & b) or 11(a & b) or 12(a & b) or 15(a & b).

Laboratory: Chem. 18(a, aR, b) or 19(a & b).

2) Organic Chemistry

Lecture: Chem. 25(a & b).

Laboratory: Chem. 29(a & b).

3) Physics

Lecture: Physics 10 or 11.

Laboratory: Physics 18c or 19c.

4) Biology

Lecture: Biol. 21a(or aR) or Bchem. 21a(or aR) *and* Biol. 31a(or aR).

Laboratory: Biol. 12(a & b).

The sequence in which the required courses can be taken is not entirely flexible. For example, general chemistry is a prerequisite for both biology and organic chemistry; calculus is a prerequisite or corequisite for physics. A suitable academic schedule *for students with good high school preparation in science and mathematics* includes—calculus and general chemistry in the freshman year, biology and organic chemistry in the sophomore year, and physics in the junior year. Chemistry or physics concentrators may wish to take physics before biology. This schedule permits students to complete the requirements by the end of their junior year, at which time they are ready to take the medical or dental school admissions test, and to begin the application process. Other schedules are possible. *Students with high school deficiencies in science and mathematics* should initially carry only one mathematics or science course each year. Information concerning scheduling, as well as other aspects of premedical and predental preparation, is available through the Office of the Dean of the College, which is responsible for all advising.

The premedical and predental programs at Brandeis are more than simply a collection of required courses. In the sophomore year students are assigned a faculty premedical advisor, who is a member of the Board of Premedical Advisors. Advisors provide continuing personal guidance to students on academic and preprofessional matters throughout the next three years, aid in the application procedure, and compile a letter of recommendation for each student.

On the national scene the overall chances of admission to medical school during the next few years are only about 1 in 3, although Brandeis applicants have been consistently much more successful than the average. Competition for entry into dental school is less fierce.

Architecture

The program in architecture is designed to alert undergraduates as soon as possible to the best preparation for a career in the field. The program is an advisory service—not a concentration—but it has consistently placed Brandeis graduates in architecture schools.

It is not necessary to concentrate in fine arts. Architecture schools are looking for solid experience in any field of concentration. There are several kinds of courses, however, which should be taken: basic calculus and basic physics; basic design, life drawing, and as many other fine arts studio courses as practicable; courses in architectural history; principles of urban studies, and other urban studies courses, if feasible.

In addition, past experience indicates that students should prepare an art portfolio, consisting of studies prepared in conjunction with basic design or another studio course. Finally, summer employment in architectural offices, gained on the student's own initiative, remains useful. Another aid to summer employment is the internship option included in principles of urban studies, where students may elect to work in an urban situation as part of the course.

An advisory committee of faculty members is available to students interested in architecture.

Business and Management

Brandeis is rich in the kinds of undergraduate experience needed to prepare for a career in management, whether in national and regional business firms or in such fields as health, education, theater, museums and athletics. Although the preparation for graduate school in business and management is not rigidly prescribed, students should consider a few guidelines.

Undergraduate education is the foundation for many of these specialized careers—a better base, in many instances, than graduate schools of business and management can provide. A career in international business management, for example, will be more available to the student who has mixed studies in foreign languages and cultures with the prescribed business courses—rather than to the student who has taken the business courses alone.

Similarly, preparation for careers in health care is now the specialization of a few schools of management. But there is much an undergraduate can learn about the economics, sociology and science of health that will ultimately be as useful as the managerial skills learned later. Furthermore, such preparation will enhance a student's qualifications for admission to a graduate program.

Modern managerial science draws on basic intellectual inputs from the fields of economics, mathematics, statistics, computer science, psychology and sociology. No student will be equally strong in all these fields. Choices of undergraduate concentration and special programs should be made with the particular future field of management in mind. The Office of Career Counseling and Information, and the faculty advisor for business and management, will help in designing a program for your interests and abilities.

Law

Most law schools advise undergraduates to concentrate in what interests them, since the later specific legal training will build on the advantages of a sound liberal arts education.

There is no prescribed program for pre-law students, although many law school applicants concentrate in such social sciences as politics, economics, history and American studies. Since law schools tend to look for evidence of a rigorous schedule of courses and high verbal competence, a background in logic, the natural sciences and English is desirable. Although courses from the Legal Studies program might familiarize the prospective law student with law school material, it is not necessary that such courses be taken as pre-vocational preparation.

Prospective applicants to law school should consult the Office of Career Counseling and Information, which provides Law School Admissions Tests (LSAT), registration materials and law school catalogues. Also available in that office is the Brandeis Pre-Law Handbook, which includes a survey of the law school acceptances and rejections of recent Brandeis alumni as well as more detailed information of special interest to pre-law students. A student organization, the Brandeis Pre-Law Society, sponsors legal internships during vacations, and throughout the year presents law students, lawyers and legal experts who speak on a variety of legal topics. Several members of the faculty serve informally as pre-law advisors.

Preparation for Teaching

While the University does not have a field of concentration in education, it offers a program which fulfills Massachusetts' requirements for teacher certification and at least partially fulfills those of other states as well. Students interested in preparing for a career as a teacher in primary or secondary schools should inform themselves of certification requirements in the state where they plan to work and should consult the faculty adviser on education.

Summer School Credit

A student may attend daytime summer schools conducted by accredited colleges and universities, for credit toward the bachelor's degree. In order to be assured that credit will be granted upon satisfactory completion, approval should be obtained in advance from the academic department concerned, the student's faculty adviser, and the Committee on Academic Standing. Normally, courses must be taken at summer programs of at least six weeks in duration; however, the Committee on Academic Standing may approve for credit selected programs of five weeks in duration. For summer work taken at institutions other than Brandeis, only honor grades (A or B) will receive credit. A student may earn credit for no more than three semester courses in one summer, nor more than six semester courses toward the degree.

Study Abroad

Brandeis University permits its students to enroll in specified foreign programs that provide an academically sound course of study which will enrich and enhance the American education.

Students may receive credit toward their Brandeis degrees through participation in educational programs abroad which have been approved by the Committee on Academic Standing on the recommendation of the Office of International Programs. This Committee may permit qualified students to enroll in overseas programs of American universities, or in special cases to pursue individual programs of study at foreign universities.

The Committee has recognized for credit toward the Brandeis degree, junior year programs in over 20 countries in Europe, Asia and Latin America, sponsored by such universities as Sarah Lawrence, Smith, Syracuse, Hamilton, Sweetbriar, and N.Y.U. as well as the Institute of European Studies and the Council on International Educational Exchange. In addition, students have received Brandeis credit for study in special programs such as those offered by universities in England, Israel and Scotland.

Outstanding students may apply for special scholarship grants to aid them in completing their program of study abroad. The Abram L. Sachar International Fellowship Program awards stipends for foreign study to exceptional students at different stages of their academic career. The Saval-Sachar Summer Research Scholarship Program provides

grants for research abroad to students preparing a senior honors thesis during the summer following the junior year. Both programs are competitive, and awards are made on the basis of academic excellence and financial need. Additional information on these programs will be found in the section "Special Scholarships and Fellowships."

The Office of International Programs provides counseling services for Brandeis undergraduate and graduate students who seek to enrich their education through a period of study abroad. It also maintains a resource library of material on available programs. The Office handles the application and selection procedures for the Sachar and Saval-Sachar competitions and provides information and assistance in obtaining foreign study grants available through the Fulbright, Rhodes, Watson, D.A.A.D., Marshall, and other scholarship and fellowship programs.

The Jacob Hiatt Institute in Israel

Brandeis University, through its Jacob Hiatt Institute, offers to students from Brandeis and other American universities a program of study in Israel. Since the Institute was founded in 1961 by Brandeis Trustee Jacob Hiatt of Worcester, Mass., more than 500 juniors and seniors from more than fifty institutions have participated in the program, which emphasizes the social sciences.

Hiatt House is located in one of Jerusalem's most attractive residential areas, convenient to the business center and the historic Old City. Classrooms, library, offices, dining room and student lounge are all under one roof. To facilitate contact with the community, students are quartered in rooms rented in households in the vicinity.

Hiatt students may choose to spend the fall or spring semester in Israel, or may remain for a full academic year. They take an integrated program of four courses taught by faculty members from Brandeis as well as by guest lecturers from Israeli institutions of higher learning. Instruction is in English.

The Hiatt Institute is open to students who will have satisfactorily completed at least four semesters of work in an accredited college or university prior to departure. Brandeis students may enroll during their sophomore year. Applicants should have maintained at least a B average. Prior knowledge of Hebrew is not required, for the program includes an intensive Hebrew language course. The applicant should, however, have taken at least one introductory course in the social sciences, preferably in political science or sociology.

A University-appointed director administers the Hiatt Institute in Israel. The fee, which includes tuition, intra-Israel travel, and room and board, is \$2200 for the fall semester and \$2000 for the second semester. Financial aid is available, usually in the form of scholarship-loan combinations, on the basis of financial need and academic performance.

Further information on the program may be obtained from the Office of International Programs.

The Abram L. Sachar International Fellowship Program

The Abram L. Sachar International Fellowship Program was instituted in 1969 by the Trustees of Brandeis University in tribute to the twenty-year incumbency of the University's first president. It is a highly selective program that supports Brandeis graduate and undergraduate students abroad during a period of study or research complementary to their education here.

The program operates on a variety of levels. For example, a graduate student, after passing the qualifying examinations, may pursue advanced research abroad. A graduating senior may spend a year of study abroad as a culmination of the Brandeis experience. A well-qualified undergraduate who plans a period of study at a foreign university or program which has offerings not available at Brandeis is also eligible for a Sachar grant.

Eligibility requirements for applicants include a high level of scholastic achievement, financial need as indicated by University records and outstanding intellectual competence or creative ability. Application forms are available at the Office of International Programs, Sachar International Center.

Saval-Sachar Summer Research Scholarship Program

The Saval-Sachar Summer Research Scholarship Program was created by Maurice H. Saval of Boston, a Fellow of the University, in honor of Abram L. Sachar, Chancellor of the University.

The program enables qualified Brandeis undergraduates to conduct research for their senior honors theses during the summer between their junior and senior years in any area of the world. Scholarships will be scaled according to financial need. Applications are to be directed to the Office of International Programs and will be evaluated and processed by a special faculty committee.

Foreign Students

Brandeis University has traditionally welcomed students from abroad to its campus. The Sachar International Center, which houses the Office of International Programs, was built in honor of Abram L. Sachar and his wife, and their lifelong dedication to international educational exchange as a road to better international understanding.

The staff of the Office of International Programs serves as counselors and advisers to foreign students at Brandeis, both graduate and undergraduate, and provides assistance to the foreign faculty as requested. It aids the students in fulfilling the legal procedures required by the United States Immigration and Naturalization Service, i.e., obtaining extensions of stay, special permits to work, and the proper documents for leaving and reentering the country. The office coordinates the Brandeis host family program and provides assistance and referral services throughout the year.

Wien International Scholarship Program

The Wien International Scholarship Program, created in 1958 by the Lawrence A. and Mae Wien Fund, is designed to further international understanding, to provide foreign students with opportunities for study in the United States, and to enrich the intellectual and cultural life of the Brandeis campus.

The Program permits the University to offer several undergraduate awards each year to outstanding students from abroad. The scholarships cover the cost of tuition and fees and, based on financial need, may include room and board, books and/or a maintenance

allowance. In no case will a scholarship awarded to a foreign student include funds for travel expenses. Awards are made for a single year to degree candidates and may be renewed upon application to The Wien International Scholarship Program Committee. The Committee's decision in these cases is final.

All applicants must qualify for advanced standing at Brandeis through previous university work or higher secondary education.

Undergraduate applicants may also be accepted as Special Students who apply for this "year abroad" in order to enhance and complement work taken in their own countries. These students return to their home universities when their year at Brandeis has been completed.

All applicants must have a thorough knowledge of the English language inasmuch as all students study within the regularly organized curriculum.

Inquiries concerning the program should be addressed to the Office of International Programs, and should contain a brief resume of the applicant's scholastic background and field of interest.

In general, funds for foreign students are extremely limited beyond Wien International Scholarships and some scholarships available to students from Israel. In no case will a scholarship awarded to a foreign student include funds for travel expenses.

Special Scholarships and Fellowships

Doris Brewer Cohen Undergraduate Awards

Established in memory of Doris Brewer Cohen, these awards are made annually to upperclass undergraduates who have demonstrated exceptional academic achievement, to encourage and enable recipients to undertake original investigations or study in collaboration with a member of the faculty of Brandeis or another university.

The Harry and Mildred Remis Scholarship and Fellowship Fund in the Creative Arts

Established by Brandeis Trustee and Mrs. Harry Remis of Boston, Mass., this endowment offers assistance to students who have demonstrated promise and potential in fine arts and music.

Remis Awards are given to undergraduates at the end of their junior year to facilitate summer study at centers of art and music either in this country or abroad.

The Harry and Mildred Remis Graduate Fellowships in Music are offered to qualified graduate students seeking to pursue careers in musical theory and composition and in the history and literature of music. The Fellowships are normally given to candidates who have completed one year of graduate work, on the basis of demonstrated excellence in academic areas and general musicianship, on creative potential and promise, and on financial need.

Rogoff Foundation Trust

The Rogoff Foundation Trust, a major gift established by the trustees of the Rogoff Foundation Inc., provides support for scholarships, fellowships, study or research in the pre-medical or medical sciences, or related life sciences.

Joseph and Bessie Gerber Glass Pre-Law Endowed Scholarships

Granted through the generosity of Mrs. Joseph Glass of Mt. Kisco, N.Y., a Fellow of the University, this gift offers tuition scholarships to worthy and deserving undergraduates who have chosen the study of law and the legal profession as their post-graduate goals.

Zale-Lipshy Endowed Scholarship and Fellowship Fund

This major scholarship and fellowship fund was established in 1974 by the Zale Corporation of Dallas and its friends and associates throughout the country, in honor of three principals of the firm: Morris B. Zale, a Trustee Emeritus of Brandeis, William Zale, and Ben A. Lipshy, all of Dallas. The gift was given in part to recognize the 25th Anniversary of Brandeis and is designed to assist undergraduate and graduate students in all disciplines. Funds are awarded without discrimination and solely on the basis of merit and need.

Special Academic Programs

Legal Studies

The program in Legal Studies proceeds from the assumption that the law is a major part of the intellectual and social heritage of mankind, and as such should have a prominent place in the curriculum of a liberal arts college. Taken in conjunction with a concentration in another department, it offers a liberal arts orientation to the law that no other American university now provides.

This is not a program designed to prepare students for entry into law school, nor is it a “mini-law” program that attempts to integrate some version of law school teaching. Rather, the program offers, with the cooperation of other academic departments, such courses as the sociology of law, constitutional law, criminology, legal history and the philosophy of law.

The program offers a course on the legal process, in which distinguished attorneys teach the fundamentals of legal reasoning and procedure. A year-long Colloquium on Legal Studies, featuring legal scholars and invited speakers from the bench and bar, is also a fixture of the program.

Students accepted into the program are expected to take the course in legal process, attend the legal studies colloquium, take a minimum of three of the law-related courses offered and write a senior thesis (which may also be used to meet departmental honors requirements) on a law-related topic.

Summer Program

The Brandeis Summer Program offers students a selected number of undergraduate courses in two five-week sessions. The program has been deliberately limited in size to ensure the unique qualities that have been the hallmark of the Brandeis experience.

The student has the opportunity to enroll in courses from each of the four schools to meet distribution requirements, accelerate individual programs of study, work towards a double concentration, or take enrichment courses. The average summer program course has a 10 to 12 student enrollment, generating a rigorous but informal atmosphere for teacher-student interaction.

Adult Education

The Adult Education Program at Brandeis provides a select number of college level courses in a variety of fields to the Greater Boston Community. Each course consists of ten two-hour sessions taught by full-time Brandeis faculty on a non-credit basis. Most are evening courses with a few scheduled during the day. In addition, a thematic lecture series is offered each semester.

Special Programs

Jack and Lillian Poses Creative Arts Awards of Brandeis University

The establishment of the Brandeis University Creative Arts Awards was announced by the University during 1956. The awards are currently underwritten by Brandeis Trustee Jack I. Poses and Mrs. Poses of New York City and are presented annually in the areas of theater arts and film, music and dance, literature, and fine arts. In each of these fields of the arts, two types of awards are bestowed. Achievement medals are conferred upon successful artists in recognition of a lifetime of distinction in an artistic field; and citations are awarded to young talented persons, in recognition of their creative ability and encouragement for future study and training. Special juries are appointed annually in each of the fields to judge the competition. In addition, the Creative Arts Awards Commission annually presents an award for Notable Achievement.

American Jewish Historical Society

In the established pattern of learned groups which elect to locate at colleges and universities, the American Jewish Historical Society is housed on the Brandeis campus as a separate and autonomous organization. It provides, however, a focus for scholarly research, symposia, exhibits, and a common meeting ground for interested undergraduate and graduate students, international figures, and for the work carried forth at Greater Boston's many libraries, museums, colleges, and universities, thus enriching both Brandeis and the Society. Its site near both the University library and Judaic center was made available by Brandeis. The building funds were provided by the late Lee M. Friedman, a former president of the Society, attorney, and Boston resident.

Lowell Institute Cooperative Broadcasting Council

Brandeis University is a member of the Lowell Institute Cooperative Broadcasting Council, which sponsors WGBH-FM, Boston's educational radio station, and its television affiliate, WGBH-TV. Brandeis, along with Boston College, the Boston Symphony Orchestra, Boston University, Harvard University, Lowell Institute, MIT, the Museum of Fine Arts, the New England Conservatory of Music, Northeastern University, Museum of Science, Simmons College, Yale University, and Tufts University, makes its teaching facilities available for use by both outlets.

The Dretzin Commentaries

Established by Brandeis Fellow Samuel and Mrs. Dretzin of New York City, the program, in conjunction with WGBH-TV, underwrites a series of telecasts, usually eight half hour scripts on subjects of academic interest. The program becomes part of the educational television library and is aired in many parts of the country. The Dretzin grant also includes a major award for outstanding public service. The winner tapes an interview for national television distribution. The award in 1972 went to the late Chief Justice Earl Warren who offered his views on the outstanding events in his long incumbency as Chief Justice of the Supreme Court. In 1973 the Dretzin Prize was awarded to former Ambassador at Large W. Averell Harriman, who recounted for the program his diplomatic role spanning four decades and five administrations.

Gersh and Sarah Lemberg Children's Center

The Lemberg Children's Center launched its parent-cooperative day care program in the fall of 1975, a contemporary outgrowth of the nursery school concept established in 1961 through the generosity of Brandeis Trustee and Mrs. Samuel Lemberg of New York City. The open classroom program at the Center accommodates some 32 pre-school and kindergarten children in full and part-time schedules. Staffed by professional teachers working in conjunction with parents, the Center has informal ties among the University's Psychology Department and Education Program.

The Brandeis University Press

The Brandeis University Press is a member of the consortium known as The University Press of New England, which also includes Dartmouth College, the University of New Hampshire, the University of Vermont, Clark University, and the University of Rhode Island.

Among recent publications are *The Americanization of the Synagogue, 1820-1870*, edited by Leon Jick; *Providing Adequate Retirement Income*, edited by James Schulz; and, forthcoming, a book entitled *Energy and the Environment*, edited by Anne P. Carter.

Initial support for the Brandeis Press has come from the gift of Bern Dibner of Wilton, Conn., a Fellow of the University.

Endowed Schools

Danielsen School of Philosophy, Ethics, and Religious Thought

The Albert V. Danielsen School of Philosophy, Ethics, and Religious Thought was made possible through a gift from Mr. Danielsen, a Fellow of the University, from Wellesley Hills, Mass.

The School includes the Department of Philosophy, which now combines undergraduate and graduate programs through the M.A. and Ph.D. degrees. The graduate program in philosophy is designed to prepare students for careers in the field as scholars and teachers, and it places traditional emphasis on logic, epistemology, metaphysics, value theory and the history of philosophy. Added to the two fully endowed chairs of philosophy in the School is the Albert V. Danielsen Chair in Christian Thought.

The Danielsen School thus hopes to encourage the advancement of philosophical thought in the context of contemporary issues, following the broadest scholarly and interdisciplinary approaches in an age of ecumenism and imperative social need.

Fierman School of Chemistry

The Harold and Minnie Fierman School of Chemistry, created through a benefaction from Brandeis Trustee Harold L. Fierman, incorporates graduate and undergraduate programs, including research activities, lecture programs and colloquia.

At the undergraduate level the curriculum is highly diversified, including basic courses in analytical, organic, physical, and inorganic chemistry. The program emphasizes the mastery of fundamental chemical principles with early exposure to research programs in preparation for graduate studies in chemistry, medicine or allied fields.

At the graduate level, M.A. and Ph.D. candidates pursue advanced studies and research projects in synthetic organic and organometallic chemistry, physical organic chemistry, structured inorganic chemistry, quantum chemistry, photochemistry, enzyme reactions, chemical physics, and laser chemistry. Of the over 100 students awarded the Ph.D., many have held a variety of governmental, industrial or foundation fellowships. Post Doctoral Fellows come to the department from leading universities around the world.

The School has been aided, in part, by grants from the National Institutes of Health, National Science Foundation, Energy and Research Development Administration, Research Corporation, and the Petroleum Research Foundation. Research conducted under these agencies has been published in over 700 papers in leading professional journals.

Fisher School of Physics

The Martin Fisher School of Physics, established through a gift from the late Martin A. Fisher of New York City, a Fellow of the University, encompasses both theoretical and experimental physics. The Fisher School incorporates the graduate and undergraduate programs in physics and also provides the setting for lectures and colloquia in physics. Scholarship and fellowship assistance provided by Mr. Fisher enhances the teaching and research at the undergraduate, graduate, and postdoctoral levels.

The School's undergraduate program ranges from introductory courses in classical and modern physics, computer sciences, and astronomy to advanced courses in atomic and nuclear physics; classical, continuum and statistical mechanics; quantum mechanics; nuclear, solid state, and mathematical physics. M.A. and Ph.D. programs include courses in astrophysics, high energy physics, plasma physics, quantum theory of fields, solid state physics, and general relativity. Experimental and theoretical research is carried out in high energy physics, solid state physics, properties of condensed matter, quantum theory of solids, and quantum field theory.

Grants from such agencies as the National Science Foundation and the Atomic Energy Commission, among others, support research programs in the Fisher School. The Fisher School also provides research opportunities for a large number of postdoctoral fellows.

Kutz School of Biology

The Milton and Hattie Kutz School of Biology was made possible through a gift from the estate of the late Hattie Kutz of Wilmington, Del., a Fellow of the University. The School encompasses the University's undergraduate and graduate biology departments. The biology curricula present a comprehensive body of courses that advance from fundamental studies to more complex areas, with special heed to new discoveries and the results of current experimentation.

Students are offered a balance between traditional background in biology and the thorough discussion of new knowledge. They are encouraged to engage in original research and independent study. The biology program also provides research and teaching opportunities for a large number of post-doctoral fellows.

A major portion of the governmental, industrial, and private research grants awarded to the University are devoted to varied projects in biology and health sciences. Distinguished scientists appear frequently at colloquia and lectures to explain their investigations.

Lown School for Near Eastern and Judaic Studies

Created through the generosity of Brandeis Trustee Emeritus Philip W. Lown of Miami Beach, Fla., the Lown School for Near Eastern and Judaic Studies encompasses an intensive teaching and research program in ancient and modern Jewish thought, history, culture, and issues, offered by both the undergraduate and graduate departments of Near Eastern and Judaic Studies. The University has assembled an array of distinguished scholars who offer an extremely broad complex of programs designed to prepare students for scholarly careers or for communal service.

The School includes the Center for Contemporary Jewish Studies, organized for the purpose of further research and seminars dealing with contemporary issues and for providing graduate education for students interested in professional careers in Jewish communal service and education.

The Lown School for Near Eastern and Judaic Studies cooperates closely with the American Jewish Historical Society, whose headquarters building on the Brandeis University campus was completed during 1968.

Poses School of Fine Arts

The Poses School of Fine Arts, established through a gift from Brandeis Trustee and Mrs. Jack I. Poses of New York City, embodies the broad undergraduate curriculum in the fine arts. It also incorporates the Poses Institute of Fine Arts, which supplements course work and workshops in painting and sculpture.

The undergraduate program in fine arts provides a substantial area of studies in the form and meaning of art from the present day to antiquity. The program stresses individual creativity and the varied techniques of the artist.

The Poses Institute of Fine Arts is host to exhibitions of paintings, sculpture, artifacts, and other forms of contemporary and traditional art in the University's museum and gallery.

Mr. and Mrs. Poses also underwrite the Jack and Lillian Poses Creative Arts Awards of Brandeis University, presented annually in the areas of theater arts and film, music and dance, literature, and fine arts.

Swig School of Political Science

A generous benefaction from Brandeis Trustee Emeritus Benjamin H. Swig of San Francisco has established the Swig School of Political Science. The Swig School encompasses the University's Politics Department, including several endowed academic chairs established earlier through the efforts of Mr. Swig. Among these are: the Harry S. Truman Chair in American Civilization; the Earl Warren Chair in American Constitutional Studies; the Christian A. Herter Chair in International Relations; and the Adlai E. Stevenson Chair in International Politics.

Crown School of Graduate Studies in American Civilization

The Irving and Rose Crown School of Graduate Studies in American Civilization was established by the generosity of Brandeis Fellows Irving and Rose Crown. Its primary objective is to attract and support gifted students in their work toward the Ph.D. in the History of American Civilization.

In order to meet the public service objective of the school, a Crown Fellowship award is occasionally made to special students both here and abroad—drawn from the Foreign Service, the media, and other important facets of public life—who would benefit from participation in graduate studies in the School.

Strengthened by the achievements of Crown Fellows of recent years, the Crown School contributes to the deeper understanding of the American past and present, thereby helping to shape the nation's future.

George and Charlotte Fine Endowment Fund

Created to supplement chamber music programs given under the auspices and direction of the Department of Music, the Fund presents annually the Irving Fine Memorial Concert, in honor of the late composer and Brandeis professor of music. The concerts are performed by members of the Department of Music and visiting artists and include in each program a work by Professor Fine.

Ziskind Program for Continuing Education in Jewish Studies

The Jacob Ziskind Charitable Trust of Boston has provided funds to allow the University to develop continuing educational opportunities in Jewish Studies. Both lay leaders and professionals in Jewish communal service participate in seminars, colloquia, and regular classroom opportunities. The program was launched in 1974.

Edith Barbara Laurie Theater Arts Trust Fund

Established by Mr. and Mrs. Irving Laurie in memory of their daughter, the Edith Barbara Laurie Theater Arts Trust Fund aids in the support of the University's respected theater arts program. The funds provided in this gift help to develop and strengthen the theater arts curriculum and its frequent stage presentations.

Lectureships

Louis Dembitz Brandeis Memorial Lectures

The Louis Dembitz Brandeis Lecture, named in memory of the late Supreme Court Justice, traces its origin to the beginning of the University's life and is presented under the auspices of the Maurice Bernstein Memorial Fund. Past lecturers include Chief Justice Earl Warren, Archibald Cox, Justice William Douglas, Justice Felix Frankfurter, Judge Charles Wyzanski, Congressman Robert F. Drinan, Ramsey Clark, Justice Abe Fortas, and Simon H. Rifkin.

Harold Sherman Goldberg Lectureship

Established to honor the late Harold Sherman Goldberg, a Fellow of Brandeis, these lectures bring to the campus leaders in the fields of government, humanities, fine arts, science, and the social sciences. The fund was established by Mrs. Romaine Goldberg, other members of the family, and Mrs. Goldberg's friends and associates.

Harry B. Helmsley Lecture Series

Established in 1957 by a grant from the Harry B. Helmsley Lecture Fund, the series focuses each year on a different theme. The subject of the 1976 Helmsley Lecture Series was "Woman, Culture and Society," with lectures given by Xandra Kayden of the University of Massachusetts on "Women in American Political Life"; Michelle Rosaldo of Stanford University on "Expressions of Male Dominance in 'Egalitarian' Societies"; and Florence Howe of SUNY/College at Old Westbury on "Feminism and Literature."

The Alexander L. and Fannie B. Shluger Memorial Lecture

The Shluger Memorial Lecture was established through the will of Mrs. Fannie B. Shluger. In 1975-76 the Shluger lecturer was the world-famous Hebrew University Professor Gershom G. Scholem, the Andrew W. Mellon Visiting Professor of Religion at Boston University, who spoke on "Man's Encounter with Himself: The Doctrine of Astralbody in Kabbalah."

The Martin Weiner Distinguished Lectureship Fund

The income from this endowment fund brings to Brandeis leaders in the fields of religion, government, international affairs, letters, science, and business. Weiner Memorial Lecturers enrich the University's curriculum by participating in regular academic seminars and symposia, as well as University convocations and public events. Among the many programs made possible was a series entitled "Science, Society and Ethics." The fund has also brought to campus Haifa University's Avraham Ben Yehoshua, the distinguished Israeli novelist and critic; and has helped fund a symposium on American synagogue architecture organized by the Department of Fine Arts and the Rose Art Museum.

Stephen S. Wise Memorial Lecture/Abba Eban Memorial Lecture

These lecture funds were established by the family of the late Nathan Straus in honor of two major figures in world Jewry. In 1976 the Honorable Simcha Dinitz, Israeli Ambassador to the United States, spoke on "Israel's Struggle for Peace and Security."

The Eleanor Roosevelt Memorial Lectureship

Established by Mrs. Irvin Edelman in 1975-76, the Eleanor Roosevelt Memorial Lecture honors the memory of one of the world's great ladies, a Trustee of Brandeis University from 1953-1962, and a member of the Brandeis faculty from 1959-1961.

The Sophie Davis International Fellow In Residence Program

This program brings to campus academics, scholars, and men and women of great distinction in public life, in the arts, in literature, and in journalism. In 1976 the program brought John A. Marcum, provost and professor of politics at Merrill College, University of California at Santa Cruz, who spoke on "Lessons from Angola"; Professors Ben Magubani and Ben Guriab of the United Nations on liberation movements in South Africa; Roger Errera, distinguished French jurist of the Conseil d'Etat on "Reflections of a French Jurist on Civil Liberties in the United States"; and the world famous anthropologist and provost of King's College, Sir Edmund Leach, who spoke on "The Concept of Man." Davis Fellows take up residence for a period from three days to a term.

Visiting Professorships

Jacob Ziskind Professorships

To implement its philosophy of education, the University brings to the campus distinguished academic figures from sister universities both in the United States and abroad who serve as Ziskind Visiting Professors. This program, made possible by the Jacob Ziskind Endowment Fund, enables the University to supplement its regular teaching staff with the presence of academicians drawn from other major streams of educational thought.

Fannie Hurst Fund for Visiting Professorships

Established in 1968 through the bequest of the late Fannie Hurst, the Fund supports distinguished visiting professors in the areas of creative writing and theater arts.



Admission to the University

The University selects new students each year on the basis of merit, admitting those individuals whom it believes to be best prepared, academically and personally, for the University's educational program and most likely to contribute to and profit from the life of the Brandeis community. Although it chooses a class varied in its interests, talents and experience, it uses no quotas of any kind—geographic, racial, religious or economic.

In its evaluation of candidates, the Admissions Office weighs evidence of accomplishment and development; school and teacher statements based on previous study and experience; relevance to the application of test results; and impressions gained through the application.

Admission Requirements for Freshman Candidates

To be considered for freshman admission, a candidate should be enrolled in a college preparatory course. Students planning to enter college before the completion of their secondary school programs, veterans or other persons with equivalency diplomas or special school backgrounds should write directly to the Director of Admissions regarding their interest and experience.

An adequate course in preparation for Brandeis should include four years of English, three years of a foreign language, including study during the senior year, whenever possible, (two years each of two languages is acceptable but less desirable), three years of college preparatory mathematics (prospective science concentrators should present a year of advanced mathematics), at least one year of science (chemistry, physics or biology), and one year of history. The remaining courses should generally be in traditional college preparatory studies. It is recognized, however, that courses in the creative arts are of value to students intending to concentrate in these fields in college.

The Scholastic Aptitude and Achievement Tests of the College Entrance Examination Board are regarded by the Committee on Admissions as one of several factors in a candidacy and as a method of evaluating the qualifications of candidates from different schools and areas. All candidates must take the Scholastic Aptitude Tests and three Achievement Tests. It is *strongly* recommended that the candidate take the Achievement Tests in: a) English Composition; b) a foreign language; c) mathematics or science. Results of Scholastic Aptitude and Achievement Tests taken between and including February of the junior year and January of the senior year are preferred for consideration.

Full information concerning testing may be obtained from secondary school guidance counselors or directly from the College Entrance Examination Board, Box 592, Princeton, N. J. 08540; or Box 1025, Berkeley, Calif. 94707. The candidate should direct the Board to report scores to the Director of Admissions.

Early Decision

Brandeis offers admission to qualified freshman candidates under its Early Decision Plan. This Plan is designed for those students who, after carefully and critically consider-

ing various college options, have decided firmly that Brandeis is their first choice. Early Decision candidates must sign a statement on the application indicating that they wish Early Decision consideration and that they will definitely enroll if admitted. Early Decision candidates may file other regular applications with the understanding that these will be withdrawn if they are accepted on an Early Decision basis by Brandeis. All applications for Early Decision must be received by November 1 and all supporting credentials by November 15, including SAT's and as many Achievement Tests as have been completed. Candidates not accepted under Early Decision will automatically be considered in the regular review period for the April 15 notification date. Further detailed information about the Early Decision Plan is contained in the admissions application.

Admission Requirements for Transfer Candidates

The Committee on Admissions welcomes applications from individuals whose promise and prior attainment is in keeping with the opportunity for a continuation of concentrated scholarly study at Brandeis. Whenever desired, applicants will be granted a conference with a faculty member in the area of academic interest. Some financial aid is reserved annually for transfer candidates.

Transfer admission is granted solely in keeping with the University's degree requirement of a minimum of *two years* of full-time study. To be considered for admission a candidate should present in applying, evidence of good standing, academically and personally, in his or her preceding college and sound reasons for wishing to transfer.

In its selection of transfer candidates, the Committee on Admissions gives major consideration to the quality of college level work completed and some consideration to further evidence of promise for achievement at Brandeis based on the secondary school record, personal evaluations by the appropriate dean, and by an instructor, testing, and information conveyed by the candidate. Candidates should submit either Scholastic Aptitude Test or ACT scores from testing completed during secondary school or no later than April of the year of application.

Part-Time Degree Program

Admission to the part-time degree program at Brandeis is based upon the same standards as are used in the admission of regular full-time degree candidates, except that part-time degree applicants must also demonstrate that they are unable to proceed toward the A.B. degree at the normal rate of work required of full-time students. A personal interview is required.

Part-time degree candidates pay on a course-by-course basis (\$484.38 per semester course for 1976-77). In order to receive the baccalaureate, they must meet *all* degree requirements, except rate-of-work requirements, that apply to full-time students. The work on the baccalaureate must be completed within eight calendar years of admission to part-time degree candidacy. Credit will be given for course work done elsewhere if it meets University transfer credit criteria.

Special Student Status

The University accepts as Special Students for the fall and spring semesters a small number of persons who are not candidates for a degree at Brandeis and who wish to elect one or more courses for which they are qualified and can demonstrate special need. Special Student status is subject to approval on a semester basis. Neither residence nor financial aid is available to Special Students, and no Special Student may take precedence over a degree candidate in any limited enrollment course.

Persons interested in Special Student status should apply by August 1 for the fall semester and by January 1 for the spring semester.

Advanced Standing

Work at Other Institutions of Higher Education

In September, petitions for exemption from specific courses may be made to the Council Chairman of the appropriate school (e.g., Humanities) for recommendation to the Committee on Academic Standing. Petitions are initiated through the Office of the Dean of the College.

Advanced Placement

Brandeis University participates in the Advanced Placement Program of the College Entrance Examination Board. The examination qualifying score (i.e., 3, 4, or 5) necessary to receive credit is recommended each year by the appropriate department to its School Council. The biology department requires, in addition, that all concentrators seeking Advanced Placement credit take an additional examination when they arrive on campus for the fall term. Credit is granted at the discretion of the department and its School Council. Departments may allow Advanced Placement examinations to fulfill prerequisites and requirements for departmental courses. Distribution requirements may be met with work completed through Advanced Placement as approved by the appropriate School Council. Students wishing to have their Advanced Placement Examination Record considered must request the College Entrance Board to forward a report to:

Coordinator of Advanced Placement
Office of the Dean of the College
Brandeis University
Waltham, Massachusetts 02154

Students who demonstrate prior preparation (e.g., college level courses taken at high school) may petition the appropriate department to administer an examination in order to obtain advanced course placement and/or Brandeis credits. Examinations which the departments agree to administer and evaluate must be taken within the first semester of residence. The examination cannot be taken after a student has had an advanced course in the same subject.

The amount of advanced placement credit awarded to either freshmen or transfer students is not limited. However, the rule of the two-year residency requirement (16 semester courses, at present) for the Brandeis degree will apply.

Freshmen who feel that the placements in specific courses which have been assigned to them at registration are not appropriate, should consult the advising chairman of the department concerned.

Application and Admissions Procedures

For the most current information regarding admissions procedures and deadline dates, prospective candidates should consult the instructions accompanying the application.

The address for the forwarding of all inquiries, materials and test results is:

Office of Admissions
Brandeis University
Waltham, Massachusetts 02154
Telephone: 617-647-2880

Notice of Nondiscriminatory Policy as to Students

Brandeis University admits students without regard to sex, race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. It does not discriminate on the basis of sex, race, color, national and ethnic origin in the administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school-administered programs.

Fees and Expenses

Financial Regulations

Students are permitted to attend classes only after all financial obligations have been met. Semester bills will be mailed in July and November and must be paid prior to August 2, 1976 and January 4, 1977, respectively. Payments received after the due dates will be subject to a penalty charge of \$25.

Reports of grades or transcripts of records will be issued to students only after all financial obligations to the University have been discharged.

Any student who has not cleared his or her financial obligations may be denied the privileges of attending classes and using University facilities, and every student must satisfy his or her financial obligations in full to the University in order to be considered eligible for graduation.

Each application for freshman or transfer admission must be accompanied by a fee of \$25. All application fees are non-refundable and cannot be credited toward other fees.

A Matriculation Fee of \$150 must be filed by each candidate upon notification of acceptance. This fee reserves a place in the class and is credited toward the first semester tuition bill. If the student fails to enroll or withdraws his or her application, the Matriculation Fee is not refunded.

Tuition

The tuition fee for 1976-77 is \$3,875 and the fee for each semester course required for degree credit is \$485. Those students who are awarded financial assistance by the Univer-

sity and who need to take extra courses may request the Director of Financial Aid to authorize appropriate increases in their awards.

Library privileges and use of athletic facilities for the academic year are included in the full tuition fee.

Students who return to the University after withdrawing will pay the prevailing tuition and other fees. In view of the constantly increasing costs of education, students may expect tuition increases during their academic careers.

Transcript Fee

Students are entitled to one formal transcript of their academic work without charge. A charge of \$2 will be made for each subsequent transcript. The student will pay the transcript fee in advance at the Cashier's Office (Bernstein-Marcus Administration Center). Transcripts will be issued only to those students whose financial record with the University is clear.

Room and Board Fee

The total charges for a dormitory room and a 21-meal per week board contract for the 1976-77 academic year are \$1,986—including the 8 percent Massachusetts meals tax of \$86. Other meal options are available at registration.

Each entering freshman must mail a deposit of \$100 to the University with his or her completed residence license and meal contract. Returning upperclass students must make their advance deposits of \$100 during the spring room drawing.

Resident students must sign room licenses and board contracts binding for the full academic year.

Non-resident students may eat in the University dining halls on a cash basis.

Other Fees

Other fees are charged for the following:

1. Each change of course after the initial two weeks of each semester, \$5. Such changes must have the approval of the Committee on Academic Standing.
2. Late registration, \$10.
3. Makeup examination, \$5.
4. Late payment, \$25.
5. Late filing of study card, \$10.
6. Seniors are charged a \$10 graduation and diploma fee.
7. A fee, which varies according to the specific course involved, is charged for laboratory supplies.
8. Orientation fee (new students only), \$10.
9. Media and government fee, \$20.
10. Study abroad administration fee, \$100 per semester.
11. Student health fee (mandatory), \$50.
12. Medical school application processing fee, \$50.

Schedule of Payment of Bills

	First Semester August 2, 1976	Second Semester January 4, 1977
Tuition	\$1,937.50	\$1,937.50
Room and board fee	993.00	993.00
Media and government fee	20.00	—
Orientation fee	10.00	—
Student health fee	50.00	—
Other—health insurance, senior graduation fee, laboratory charges, room damages, etc.	As rendered	

Payment Plans

While it is the responsibility of the parent or guardian to arrange the settlement of his or her financial obligations to the University, and while many parents find it most convenient to meet such costs directly out of their own funds or through local banking arrangements, payment programs are offered to the parents of our students by the University and by the National Shawmut Bank of Boston. Questions regarding the University's program should be directed to the Chief Accountant, while questions on the National Shawmut Bank program should be addressed to the bank.

Refunds

A student who leaves the University without the approval of the Committee on Academic Standing, or who is suspended or dismissed from the University, is not entitled to any refund.

When the Committee on Academic Standing grants a leave of absence or allows a student to withdraw during a semester, that student may receive a refund of charges in accordance with the following:

1. *Tuition:*

Withdrawal: Before the opening day of instruction: 100% of semester tuition.
On or before the second Friday following the opening day of instruction: 75% of semester tuition.
On or before the fifth Friday following the opening day of instruction: 50% of semester tuition.
After the fifth Friday following the opening day of instruction: no refund.

2. *Scholarships:* In the case of a scholarship student who withdraws, the student's account will be credited with the same proportion of the semester scholarship as charged for tuition: 25% if the student leaves on or before the second Friday; 50% on or before the fifth Friday; and, 100% thereafter. The balance of the scholarship will be cancelled.

3. *Room Charges:* Students may cancel rooms and receive refunds for the following reasons only: leave of absence, approved withdrawal, study abroad, or marriage. No refund of room charges will be granted after July 1 for the fall semester and after December 1 for the spring semester.

4. *Board:* Refunds will be made on a *pro rata* basis from the end of the week in which a student withdraws from the University.

The date of withdrawal or leave will be considered to be the date approved by the Committee on Academic Standing.

All requests for refunds must be in writing and are subject to review and final approval by the Controller.

Financial Aid

Brandeis maintains an active financial aid program consisting of scholarships, loans and jobs. The staff of the Office of Financial Aid is available to assist parents and students in planning to finance four years of undergraduate education.

Financial aid is awarded after a careful analysis of the family’s ability to support the student’s costs of education. Included in the analysis is the ability of the family to contribute from current income and assets, the student’s ability to earn through summer and term-time employment and the ability of the student to assume long-term, low-interest loans. The difference between a family’s ability to support the student and the actual costs of education is determined to be the student’s financial need. The Office of Financial Aid will attempt to meet the established need through a financial aid “package” consisting of scholarship, loan, and job assistance.

Costs

An average student expense budget for 1976-77 is as follows:

	<u>Resident</u>	<u>Commuter</u>
Tuition and Required Fees	\$3925	\$3925
Room	825	—
Board	1075	—
Housing and Travel Allowance	—	1200
Books and Supplies	150	150
Miscellaneous	<u>500</u>	<u>500</u>
Total	\$6475	\$5775

Financial Aid Policy

1. All students receiving grant aid will be expected to assume loan and work obligations. The loan and employment combination of the financial aid package takes into consideration the year in college, family income, family obligations and future earning potential. Loans may be reduced by the students’ contributions from increased earnings.
2. Financial Aid applicants are required to apply for the Federal Basic Educational Opportunity Grant Program and for State scholarship programs where available. If an eligible student does not make an application to the Basic Educational Opportunity Grant

Program, the full amount of aid for which he or she was eligible will automatically be deducted from grant aid given by Brandeis.

3. Students are required to report all scholarships and grant aid received from sources other than the University. All state and federal government grant aid will be deducted dollar for dollar from the Brandeis grant. All non-University, non-government scholarship and grant aid will result in a reduction of the Brandeis grant in one of the following ways: a) the recipient may elect a one-time reduction at the time of receipt of the outside award; or, b) the recipient may elect to have the Brandeis grant reduced on a pro-rata basis over the number of years remaining in school. University loans will not be reduced as a result of such aid. This policy will enable the University to assist other needy students for whom grant aid was previously unavailable.

4. All students must reapply for financial aid each year. Applications are distributed by the Office of Financial Aid in early December. The deadline for applying for financial aid is March 1.

5. The amount of aid received is adjusted yearly. During review, adjustments are made for changes in income from the previous year. Families are asked to file the previous year's Federal Income Tax statement in support of the application.

6. Although the University will endeavor to maintain financial aid for those students awarded aid prior to matriculation, the University in no way obligates itself to such a policy, nor will it under any circumstances feel obliged to continue such aid to a student who does not make acceptable progress toward the degree, or to a student who requires more than 32 semester courses at Brandeis to complete degree requirements.

7. If a student on financial aid wishes to accelerate the academic program by taking extra courses, the student may apply for financial aid to cover the billed cost of these courses.

Loans

1. National Direct Student Loans—Interest is not charged and repayments are not expected (1) while the recipient is carrying at least a half-time program in college or graduate school, (2) while he or she is in the Service, in the Peace Corps, or in Vista (for up to three years), and (3) for nine consecutive months thereafter. Interest then is at the rate of 3% per year, and repayment may be made over a ten-year period (with a \$45 minimum quarterly payment). Cancellation of a portion of the aggregate loan is available for service as a teacher of the handicapped or in a low-income school district or for service in the U.S. armed forces.

2. Federally Insured Student Loan Program—Students from families with adjusted incomes under \$15,000 per year may receive loans with interest paid by the federal government as long as the borrower is in school. Nine months after leaving school the borrower begins a ten-year repayment period during which time 7% interest is charged. Information and applications for this program are available from banks, savings and loan associations, and credit unions. In extenuating circumstances where an applicant is unable to secure a federally insured loan, an application for the loan may be submitted to Brandeis.

Student Employment

The Student Employment section of the Office of Financial Aid seeks to provide job placements to students seeking work on campus and in the Waltham area. This service is available to all students, regardless of whether or not they are receiving financial aid. Interested students should register in the Office of Financial Aid.

Job earnings are not available to apply toward billed charges from the University at the beginning of each term.

Financial Aid to Transfer Students

A limited amount of financial aid is available for students entering Brandeis as transfer students from other institutions of higher education. Applicants who could not afford to attend Brandeis without financial assistance should submit the Application for Financial Aid to Transfer Students that is enclosed with the admission application. The application for financial aid is due at the same time as the application for admission. Since funds for transfer students are limited, transfer applicants should thoroughly explore alternate plans for financing their education at Brandeis.



Academic Regulations

Rate of Work (Full-Time Degree Candidates)

A degree candidate is required to take four courses each semester. A student may take five courses in any semester without paying an additional fee and without obtaining special permission. A student who wishes to count the credit for a fifth course toward the semester course credit requirement for the degree (see paragraph below—Class Standing) must pay the fee for the course which is \$484.38. Permission to take less than four courses a semester may be granted only by the Committee on Academic Standing and only on grounds of illness or personal handicap. Permission to work and pay at the six course rate may be granted by the Committee on Academic Standing in exceptional circumstances.

Changes in Courses

Registration and course enrollment occurs at the beginning of each semester. During the first two weeks of each term, students select their courses in consultation with their faculty advisers. Final course enrollment materials are filed at the end of that period.

Requests for program changes after the second week must be submitted to the Committee on Academic Standing. Such requests, however, are granted only in exceptional circumstances and require written approval of the instructor and the faculty adviser.

An exception to the above procedure is made for students who wish to withdraw from a fifth course without academic penalty. In such cases, an appropriate program change form must be submitted, together with a service fee of \$5.00 at the Office of the Registrar by the last day of the semester on which a class in that course is given.

Auditing

There is no formal audit status for undergraduate students. Students wishing to audit a course informally must secure the permission of the instructor.

Class Standing

The minimum number of courses required for advancement to each class is as follows: sophomore, 6; junior, 14; senior, 22. The minimum number of semester courses required for graduation is 32. A semester course is the equivalent of 4 semester-hour credits.

Attendance

Any student in good standing has unlimited cuts, provided the student completes the work in the course to the satisfaction of the instructor. A faculty member may, however, require attendance at his or her course, and every assignment must be completed even if the student has been excused for the period. Students on warning are permitted three cuts per course, each semester. *Students on probation are permitted no cuts.*

A daily report is conveyed to the Dean of the College Office indicating those students who are confined to the Stoneman Infirmary because of illness or injury. If a student is required to remain at home or in an outside facility for health reasons, he or she must advise the University Health Services at the earliest opportunity regarding the date of onset of disability and the expected date of return. The Dean of the College will then be so informed and will inform the appropriate faculty members.

Reading Period

An instructor, with the approval of his or her department chairman or interdepartmental committee chairman and the Dean of Faculty, may institute a reading period in advanced courses. A reading period is a two-week period, immediately preceding final examination, during which no classes are held. A student works on assigned course material not covered in class sessions. The reading period material will be dealt with in the midyear and final examinations.

Grades

Grades will be reported to the Office of the Registrar four times a year. In determining these grades, all components of the student's work in a course will be considered: written work, recitations, laboratory technique and reports, special reports or research, and all examinations. In each course, the same requirements for arriving at grades apply to all students.

The following grades will be used with plus or minus where appropriate:

- A-High Distinction B-Distinction C-Satisfactory
D-Passing, but Unsatisfactory E-Failure

The letters "S" (Satisfactory) or "U" (Unsatisfactory) may be used as the midsemester grades for undergraduates. The regular letter grades will be used for final grade reporting and evaluation, and these grades will reflect the semester's work. Regular letter grades will be given in the spring semester in year courses.

The numerical equivalents of the grades as determined by the faculty are:

A+ or A	4.0	B	3.0	C	2.0	D	1.0
A-	3.67	B-	2.67	C-	1.67	D-	.67
B+	3.33	C+	2.33	D+	1.33	E	0.

Students may obtain midyear grade reports from their faculty advisers. The Registrar reports year-end grades to students in writing. Instructors notify students of mid-semester grades.

Pass-Fail Option

A student may take up to four courses pass-fail while enrolled at Brandeis. No more than one course may be taken pass-fail at any one time. Grades of "pass" "fail" will not be used in computing grade point averages. Normally, courses taken pass-fail will not satisfy concentration requirements.

Students who have been taking whole courses pass-fail in the Fall Term must continue to take them pass-fail in the Spring Term. Students who have been taking whole courses for a letter grade in the Fall Term must take them for a letter grade in the Spring Term.

Students taking courses pass-fail must complete all assignments and must take midyear and final examinations. Pass-fail enrollments may *not* be made with the instructor and without the knowledge of the Registrar.

Examination Attendance

Students who are absent from midyear or final examinations and wish to request a makeup examination must obtain advance authorization from the Office of the Dean of the College.

If a student is absent without excuse from a term-end examination and does not obtain authorization for a makeup examination, the student will be given a grade of zero on the examination. The instructor will be instructed to supply a grade for the course. If, after six weeks, the instructor fails to do so, the Registrar will enter a failing grade on the student's record.

A student is expected to complete the work in each course before the beginning of the examination period. Students unable to complete the work in a course by this time may apply, with the consent of the instructor, for an *Incomplete*. Approval of the faculty adviser as well as the instructor is required; for students on warning or probation, the approval of the Office of the Dean of the College is also required. The work must be completed by a date stipulated by the faculty adviser and in no case later than six weeks after the beginning of the next semester. The grade for the course must be filed by the instructor no later than the sixth week of the next semester. The Registrar is instructed to enter the grade of "E" on the record of any student who fails to obtain an *Incomplete* as stipulated above or who does not complete a course on schedule. Such failures may be changed only by vote of the Committee on Academic Standing.

Should a student not complete other required academic exercises such as laboratory assignments, minor papers, or quizzes, and if the absence or noncompliance is excused, the instructor in charge of the course may, at his or her discretion, require the work to be made up or not count the assignment in determining a grade. When there is no satisfactory excuse for the incomplete work, the instructor may, at his or her discretion, record a failing grade.

Academic Status

A satisfactory record for a term may contain no more than one D and no E's. At the end of the Fall Term, the Committee on Academic Standing announces two Dean's Lists of honor students. The minimum records expressed in half courses which qualify for the two Dean's Lists are as follows:

Dean's List I

3 A, 1 B

2 A, 1 B, 1 P

Dean's List II

4 B

3 B, 1 P

1 A, 2 B, 1 C

1 A, 1 B, 1 C, 1 P

At the end of the Spring Term based on the academic record of the *entire year*, the Committee on Academic Standing again announces two Dean's Lists. The minimum records expressed in *whole* courses are as follows:

<i>Dean's List I</i>		
3½ A, ½ C	2½ A, 1½ B	2 A, 1 B, 1 P
<i>Dean's List II</i>		
4 B	1 A, 2 B, 1 C	3 B, 1 P

No students will have their names placed on the Dean's List who have a D or more than one C on their records for the period.

In order to be eligible for the degree, students must compensate for any D beyond two with an A or a B.

The Committee on Academic Standing will notify students in writing whenever their grades are unsatisfactory. When there are extenuating circumstances, no further action is taken. Students whose records are not low enough to incur probation are placed on warning, a disciplinary status. They will be placed on probation and may be required to withdraw at the next grading period unless their work is then satisfactory. Students are placed on probation when their records are seriously unsatisfactory. Such students are in danger of dismissal unless their records show marked improvement. Students' connections with the University are severed if their records are so unsatisfactory that the Committee on Academic Standing considers them unable to meet the academic requirements.

Leaves of Absence and Withdrawal from the University

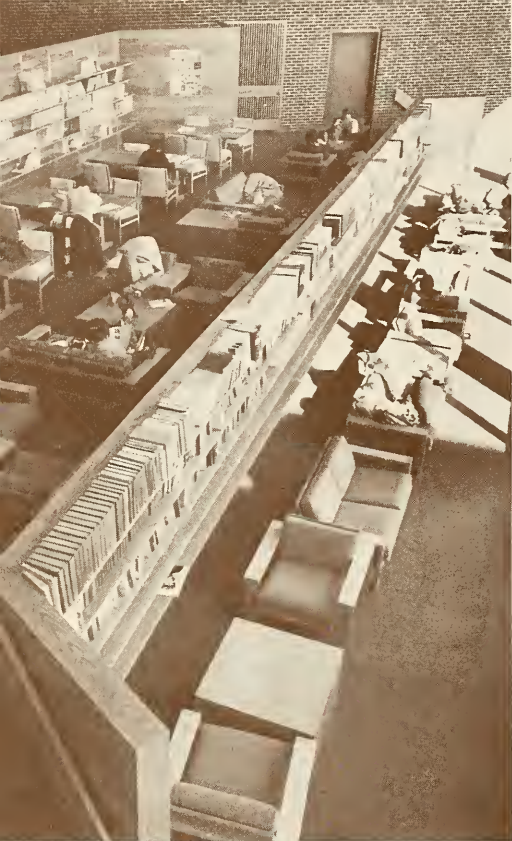
Any regular undergraduate student who has been in residence for two semesters and who has a complete and satisfactory record from the preceding semester is eligible for a leave of absence. A leave of absence is granted for one or two semesters and may be extended, at most, once. Students are required to inform the Office of the Dean of the College in writing of their intentions at a specified date prior to the beginning of the term in which they are scheduled to register. Credit will not normally be granted for academic work taken at other institutions during a leave of absence.

A student wishing to withdraw from the University may do so at any time. After one calendar year has elapsed, the Committee on Academic Standing will consider a student's application for readmission. (Note: Please refer to the schedule of refunds on page 36.)

In order to obtain a leave of absence or to withdraw from the University, a student must consult the Office of the Dean of the College and obtain clearance from all appropriate administrative offices.

Dismissal or Severance

The University establishes and administers rules of student conduct and reserves the right to suspend or expel students whose conduct, in the judgment of the President, in consultation with the Director of Student Affairs or Dean of the Graduate or Heller Schools, warrants such action. As a matter of standard procedure, the University will give due notice and, if requested, a hearing before the appropriate judiciary system to any student whose severance from the University for other than academic reasons is under consideration.



Student Life

The Office of Student Affairs is responsible for the quality of student life and student development. Among this office's areas of concern are cultural, intellectual, and recreational and religious programming, residential life, the availability of professional resources to aid students in their present endeavors and future life planning, and disciplinary referrals.

Located in the Usdan Student Center, the Office of Student Affairs is responsible for co-curricular programming, advising, supporting, and coordinating student groups and activities, the smooth operation of the multi-purpose Usdan Student Center and other campus programs such as orientation and parents' weekend. The staff, in conjunction with undergraduate students and faculty, maintains a varied program of social, cultural, and intellectual events during the academic year. Policy formulation and committee work of import to student life and activities is also focused here.

To further the objective of student growth, the Office of Student Affairs coordinates the following departments and services:

The Office of Career Counseling and Information

The Office of Career Counseling and Information assists undergraduates and alumni with their graduate and career plans. The office staff provides individual career counseling, life-work planning workshops, career exploration programs, and a full career resource library. Located in the Usdan Student Center, the office serves as a link between current undergraduates and Brandeis alumni—alumni from the business and professional world, who have entered fields of higher education, medicine, journalism, social work, law, and many others. In addition to counseling and career information, the staff provides assistance to seniors and alumni as they prepare and distribute job applications and credentials. Coordination of interviewing with representatives from educational, governmental, and business organizations is provided throughout the academic year. All students are encouraged to make use of these resources.

Office of Residence Life

The undergraduate college is essentially a residential college with nearly 75% of the undergraduate students living in residence. The Director of Residence Life coordinates and directs the activities of the residence system and supervises the residence staff. This department, located in the Usdan Student Center, is responsible for the smooth administrative operations of the undergraduate dormitories, as well as counseling and programming within the residence halls.

The residence halls are grouped into eight living areas ranging in size from 140 to 400 students. Each area is under the supervision of a resident quadrangle director or area coordinator. In addition, head resident counselors and undergraduate assistant resident counselors aid in the administration of several residence halls. Staff members are available to provide assistance to residents on academic, personal, and social matters.

Religious Activities

Religious activities and related programs are centered in the Three Chapels Association and are conducted by the student religious organizations: B'nai B'rith Hillel Foundation, Catholic Campus Ministry, and the Student Christian Association.

Hillel, the Jewish student movement on campus, embraces and welcomes Jews of all persuasions and interests. Hillel presents an extremely diversified and pluralistic program, including religious services, Holyday celebrations, a Sabbath lecture series, a free university network of unusual seminars and study groups (called the "Lehrhaus"), social service projects, a Hebrew chorus, a workshop in Jewish crafts, a multi-faceted Israel program (including an annual Israel Drive), Soviet and Arab country Jewry projects, Holocaust Remembrance Week and a Jewish Arts Festival.

The Bethlehem Chapel community, or Catholic Campus Ministry, serves the total Catholic community at Brandeis: students, faculty, and staff. There are Sunday and Daily Masses, hours for private and group consultation, seminars, study groups, Holyday and Fast Day programs, and other events.

The Student Christian Association presents a variety of services and programs including poetry readings, slide shows, films and speakers, as well as sponsorship for the Black Gospel Chorus.

Apart from sponsoring separate programs, the Three Chapels Association sponsors several important cooperative enterprises. Notable among these is the Helmsley Dialogue Series, which offers each semester discussions of controversial moral issues, special religious services, films, social action and service programs.

The three chaplains serve as advisers to these groups and are available to all persons within the University community for personal and religious counseling and informal exchange.

Student Activities

Usdan Student Center

The Usdan Student Center acts as a focal point for co-curricular and extra-curricular activities at Brandeis. The Center provides office space and facilities for student government and a broad range of student clubs and organizations. Undergraduate students play a major role in the operation of the building, both through the large number of student staff who work in the building, and through the Usdan Student Center Advisory Board which assists in the determination of policy and student organization space allocation.

Student Government

Brandeis students consider themselves a part of a community dedicated to the advancement of liberal values, the enrichment of life experience and the deepening of learning. Organized as the Brandeis Student Union, they consider it their prime responsibility to create a democratic student organization, to increase the flow of new ideas and to provide enjoyable and creative recreational and cultural activities for all students.

The Student Union is the assembly of the entire student body. The Student Senate, consisting of elected officers and elected representatives from each class, meets regularly to conduct its business and supervise its programs. One of its major responsibilities is the collection and allocation of the voluntary Student Activities Fee, which funds a variety of social, cultural and educational programs offered by the Senate.

Student Organizations

A variety of student organizations exists for all who are interested. Organizations are open to any matriculated student on the basis of competency or interest. No exclusive or secret societies may be organized.

Co-curricular activities include the Computer Science Club, English Club, Music Club, Physics Club, Psychology Club, and Russian Circle.

Musical, dramatic and dance activities include the Brandeis Ballet Club, the Brandeis Dance Group, Gilbert & Sullivan Society, Gospel Choir, and Richard Tucker Center for Arts.

Special interest groups include the Academic Coalition for Human Rights, Afro-American Organization, Brandeis Gay Advocates, Brandeis Asian-American Students Association, Bridge Club, Ecology Club, Fernald Volunteers, *Folio*, Frisbee Club, Grito, Hillel, International Association, the *Justice*, Massachusetts Public Interest Research Group, Meditation Society, Philosophical Society, Photography Club, Pot Shop, Pre-Dental Society, Pre-Law Society, Sailing Club, Science Fiction Club, Society for a Creative Anachronism, Student Service Bureau, Student Sexuality Information Service, Table Tennis Team, Trotting Club, United Farm Workers Support Committee, Waltham Group, Yoga Club, and Young People's Socialist League.

The campus radio station, WBRS-FM, is owned by the University and operated solely by the students. The station is licensed by the FCC to transmit on 91.7 Mhz to the Greater Boston community. A broadcasting schedule exceeding 100 hours per week includes programs of information, entertainment, and public service.

Student Publications

The *Justice* is the student campus newspaper, edited and managed entirely by students to cover matters of campus interest. It is published weekly during the academic year. The Student Senate annually publishes a *Yearbook* and a *Course Evaluation*.

Committee on Student Life

This faculty-student-staff Committee chaired by the Director of Student Affairs, is charged to make recommendations to the President regarding rules, regulations, and policies governing conduct on campus. It is responsible for recommending changes needed to improve the quality of life for the Brandeis community, and its jurisdiction includes extracurricular activities and the use of University facilities.

Security and Safety

The Department of Security and Safety is located at Room 1-A, Sydemann Hall. Responsibilities of this 19-member special police force embrace campus-wide security/safety patrol, traffic control and enforcement of University driving/parking regulations, protective custody of University offices, classroom/dormitory areas and professional inquiry into incidents involving theft, trespassing and related matters. Special emphasis of the Department is placed upon preventive and protective care for all members of the University community.

Automobile Regulations

The University will not permit freshmen, other than commuters, to maintain motor vehicles on campus. All other students must register their vehicles with the Department of Security and Safety. Students with motor vehicles must observe University traffic and parking regulations, a copy of which will be placed in each mailbox at the beginning of the school year. Due to limited space, the Brandeis Parking and Traffic Committee *strongly* recommends that students leave their motor vehicles at home. Freshmen who feel that they must have automobiles on campus may appeal to the Parking and Traffic Committee for permission.

Athletics

Recognizing the importance of athletics in a sound college educational program, Brandeis University offers a wide variety of organized sports. All aspects of college athletics, however, are subordinate to the essential educational purposes of the University. The athletic program exists for the welfare of the students and for the contribution it can make to their educational experience. A physical examination is required before participation in any organized sport.

The University fields varsity teams for men in soccer, baseball, basketball, fencing, lacrosse, cross-country, track, tennis, and swimming. Women engage in varsity basketball, fencing, tennis, softball, swimming and volleyball. The varsity squads compete against teams representing colleges and universities which regard athletics in the same spirit as Brandeis University. Playing on a home-and-away basis, Brandeis teams have scheduled competition with teams from the Midwest, the South and New England. Brandeis is a member of N.C.A.A., New England Athletic Conference, Eastern Collegiate Athletic Conference, and the Greater Boston Collegiate Athletic Association. All home athletic contests are played on the campus at Gordon Field, Marcus Field, Rieger Tennis Courts, Shapiro Athletic Center and the Linsey Sports Center.

Believing in the value of athletic participation for both conditioning and relaxation, the University maintains a full array of intramural programs. Competitions are organized in various sports on a volunteer-team basis. The intramural program includes flag-football, basketball, softball, tennis, table tennis and swimming. Residence hall and commuter teams have also been organized in these sports, with the competitive aspects subordinated to the enjoyment of the game.

Health Services

The University Health Services provides a program of comprehensive health care for students not only as it relates to physical illness, but also to personal and emotional concerns. Students are entitled to services available at the Stoneman Infirmary, the Golding Medical Outpatient Services Center, and Mailman House. In addition, each student is encouraged to participate in the Brandeis University Student Health Insurance Plan. Although participation in the Plan is not mandatory, it is required that a suitable alternative insurance plan be substituted. Except for limited day-care facilities, the Health Services and the use of the Infirmary are available to students only during the period in which the University is in regular academic session.

Prospective students planning to matriculate in the College and Graduate Schools are responsible for the submission of a Health Examination Report completed by their family or personal physician. In addition to information about previous health and details of the physical examination, evidence of immunization against smallpox and tetanus are required. Protection against poliomyelitis is desirable. Since students may not register until these requirements have been satisfied, it is strongly recommended that the Health Examination Report be submitted by July 1.

The Student Health Insurance Plan is designed to defray expenses of those care situations which are beyond the scope of the Health Services; for example, laboratory and x-ray examinations, as well as hospitalization for illnesses or accidents of more serious nature. The Plan extends for a full calendar year commencing September 1. A brochure

outlining the details of the Plan, as well as the services offered by the University Health Services, is distributed to each student at registration, and copies are mailed to parents. Students and parents are urgently requested to read this brochure and keep it for reference. Whereas situations not covered within the Health Services or by the Insurance Plan are infrequent, an awareness of these possibilities will tend to lessen misunderstanding and disappointment. In such instances, students and their parents will be responsible for expenses which are not covered by the University's health program or its associated insurance policy. Similarly, students and their parents will be responsible for expenses which are not covered by alternative insurance programs substituted for the Brandeis University Student Health Insurance Plan.

Psychological Counseling Center

The Psychological Counseling Center, which is a part of the University Health Services, is located in Mailman House. It provides professional assistance to students who have personal or emotional problems. Those who wish such help may refer themselves directly to the Center. Their communications with the staff are held in strict confidence.

Dining Facilities

Student cafeterias are located in the Sherman and Usdan Student Centers. A separate kosher kitchen is provided in Sherman. The Usdan Student Center also offers an ice cream parlor and the Boulevard, which consists of a group of small food shops and a retail bakery. In addition, light refreshments are provided in Cholmondeley's, a coffee house operated by students in Usen Castle.

The Stein

Located in Sherman Student Center, The Stein is a student operated tavern offering sandwiches, light meals, beer and wine. The Stein is a popular gathering place for students throughout the academic year.

Bookstore

Located in the Usdan Student Center, the campus bookstore is operated by a private, non-Brandeis agency. It is open Monday through Friday from 9:30 a.m. to 4:30 p.m. A small "convenience" shop, located within the bookstore, provides service from 5:30 p.m. to 8:30 p.m. weekdays, and 11 a.m. to 3 p.m. on weekends. The bookstore, through its close association and coordination with academic departments and faculty members, offers students a comprehensive stock of textbooks and paperbacks related to the academic program. School supplies, clothing, health and beauty aids, and gift items may also be purchased at the bookstore.

Post Office and Student Mailroom

The campus mailroom is located in the Usdan Student Center. All student mail is delivered to the campus post office, and a separate mailbox is maintained for each student. From 11 a.m. to 5 p.m., Monday through Friday, and from 11 a.m. to noon on Saturday, all services are provided, including the sale of stamps and money orders, registry of mail, and handling of parcel post packages.

Campus Facilities

Academic and Administrative Buildings

Abelson Physics Building

The Abelson Physics Building houses the teaching and research laboratories of the Physics Department. It also includes a major physics lecture and demonstration hall.

Administration Center

Overlooking the main entrance to the campus, the Brandeis University Administration Center houses the offices of the president, vice-presidents, dean of faculty, University administration, and the National Women's Committee. Conference room facilities serve the Board of Trustees, faculty, and administrative staff. The Center comprises the Bernstein-Marcus Administration Center, Gryzmish Academic Center, and the Julius and Matilda Irving Presidential Enclave.

Bass Physics Building

A unit of the science quadrangle, the Bass Physics Building includes research facilities for the Physics Department as well as departmental offices.

Bassine Biology Center

The Bassine Biology Center houses all of the research activities of the Biology Department. It includes environmental growth chambers and greenhouses in addition to laboratories, laboratory support areas, preparation rooms, and seminar facilities for the use of biology faculty and research personnel.

Brown Building

The Benjamin Brown Building, a major research center, is located adjacent to the social welfare school and provides offices and work rooms for the multifaceted research programs conducted by the Heller School.

Brown Social Science Center

Adjacent to the library, the Brown Social Science Center includes three structures. The central building houses the Anthropology and Psychology Departments. It contains classrooms, seminar rooms, faculty offices, laboratories and a small anthropology museum. Glass walls overlook an attractively landscaped quadrangle which the Social Science Center encloses.

Schwartz Hall houses a 300-seat lecture auditorium, classrooms, and a spacious lounge. The lounge contains a permanent exhibit of oceanic art and ethnographic objects donated to the University by Mrs. Helen S. Slosberg.

Lemberg Hall is the home of the Lemberg Children's Center, a day care facility which also provides for the educational and social development of young children.

Brown Terrarium

Completely equipped as an experimental greenhouse, the Brown Terrarium, located atop the Biology Center, provides facilities for botanical research.

Dreitzer Art Gallery

Designed as an adjunct to the art exhibition facilities of the University, the Mildred and Albert J. Dreitzer Art Gallery in the theater houses special loan exhibitions as well as periodic displays of selected art works from the University's permanent collection.

Harry Edison Chemistry Building

A center for research in chemistry, the Harry Edison Chemistry Building includes laboratories and research offices for faculty, postdoctoral research fellows and other research personnel of the Chemistry Department.

Epstein Campus Service Center

The Ethel and Rubin Epstein Center for campus services houses several administrative departments of the University, including the Purchasing Department, the Plant Operations Department, and the University's major service facilities, including repair and maintenance shops and stock and storage areas.

Faculty Center

The Faculty Center contains club facilities, lounges, the faculty dining room, a private dining room for faculty groups, and apartments for visiting faculty, lecturers, and guests of the University.

Feldberg Computer Center

The Feldberg Computer Center, located centrally on campus, houses computer equipment for research work in the life, natural, and social sciences, humanities, and the arts, and provides teaching and administrative facilities.

Ford Hall

Ford Hall contains classrooms, laboratories, faculty offices, and an auditorium seating 500, used for lectures, large student meetings, and major conferences.

Foster Biomedical Research Laboratories

Serving the aims of basic science, the Henry and Lois Foster Biomedical Research Laboratories provide the highly-controlled, disease-free environment for laboratory animals so necessary to extend understanding in the life sciences. The two-story brick facility is located adjacent to the Kosow Biochemistry building and the Rosenstiel Basic Medical Sciences Research Center.

Friedland Research Center

Joined to Kalman Science Center by an overhead corridor of glass and stainless steel, Friedland Research Center provides four stories of modern laboratories which house research in biochemistry and related life sciences.

Gerstenzang Library of Science

The central structure of the science quadrangle is the Gerstenzang Library of Science. This building also includes lecture-demonstration auditoria. The library contains stacks, along with facilities for preparation and use of microfilms, a periodical room and journal reading area, office and other library administration facilities. The lecture-demonstration halls are constructed as amphitheatres, one seating 300 and the other 100. This unit is connected to all other buildings in the University's science complex.

Goldfarb Library

Near the center of the campus, Goldfarb Library is a brick, limestone and glass structure. On the periphery of its open stacks are student study carrels and faculty studies. Seminar rooms are provided for courses requiring intimate and immediate access to library

resources in specific research and reference areas. The library also contains audio-visual aids, specialized reading rooms, typing rooms and lounges. Works of art from the University collection are on display in its galleries.

Golding Judaic Center

Overlooking the campus from the northeast corner of the Academic Quadrangle, Golding Judaic Center contains classrooms devoted to the study of the Near East, Judaics and related subjects. Classrooms and faculty offices ring its large, central lecture hall.

Golding Medical Outpatient Services Building

This facility is adjacent to the University infirmary and provides treatment room, consulting, examining and medical records rooms.

Goldman-Schwartz Art Studios

The Goldman-Schwartz Art Studios provide classrooms, faculty offices and sculpture areas for the Department of Fine Arts, and studios for faculty, advanced students and artists-in-residence. Its completion marked a major step in fulfilling the master plan for a unified creative arts enclave extending across the southwest campus.

Goldsmith Mathematics Center

A unit of the science quadrangle, the Goldsmith Mathematics Center provides classrooms, seminar rooms, research offices, faculty offices and a mathematics library for the use of the Mathematics Department.

Hayden Science Court

The Charles and J. Willard Hayden Court, comprising several acres in the central campus area, is the site of present and projected science facilities of the University. This area has been set aside as a memorial to two generous benefactors, whose pioneer gift stimulated the extensive scientific programs of the University.

Heller School

The Florence Heller Graduate School for Advanced Studies in Social Welfare is located in the Heller Building overlooking the campus. The University's only professional school, the Heller School is a major training ground for social welfare policy makers and teachers.

Hiatt House in Israel

Hiatt House is located in the Talbieh section of Jerusalem, near the famed Rose Gardens, a favorite attraction for visitors. It provides classrooms, offices, library, and dining hall for students and teachers in the Hiatt Institute Program. Hiatt House is sponsored by Brandeis Trustees' chairman and Mrs. Jacob Hiatt of Worcester, Mass.

Kalman Science Center

The University's first structure devoted entirely to science, Kalman Science Center continues to be the key facility in the growth of the University's science facilities. This Center contains instructional and research laboratories for the undergraduate School of Science and for the advanced work of the Graduate School of Arts and Sciences.

Kosow Biochemistry Building

A unit of the Biochemistry Research Center located to the east of the original science facility of the University, and joined to it on all floors, this building provides additional modern laboratories where research in biochemistry and the related life sciences is conducted.

Lecks Chemistry Building

Also adjoining the existing original science facilities, the Lecks Chemistry Building provides modern laboratories and research spaces for the expanding chemistry research program of the University.

Philip W. Lown School for Near Eastern and Judaic Studies

The Philip W. Lown School for Near Eastern and Judaic Studies is located in the Academic Quadrangle, adjacent to the Humanities Center. This building contains classrooms, seminar rooms, faculty offices, graduate study spaces, a language laboratory, an archeological studies laboratory, and an auditorium seating approximately 100 persons.

Mailman House

Mailman House contains the University's psychiatric and psychological counseling staff as well as seminar rooms. The Center is located adjacent to the Infirmary on South Street.

May Memorial Hall

The Morton May Memorial Hall is a striking glass, brick and granite structure which provides office and teaching spaces for the African and Afro-American Studies Department and other programs. The building includes a spacious lounge for student meetings, colloquia, and seminars.

Olin-Sang American Civilization Center

On a hillside overlooking the library and the Three Chapels, the Olin-Sang American Civilization Center provides unique seminar-classroom halls which include display areas for original manuscripts and source materials relating to the courses offered. Included are the Diplomatic Studies, Human Rights, Lincoln, Presidential, Washington, Judicial, Legislative, Ethnic Studies, and Slater Halls. The Shapiro Forum, which is the building's lecture auditorium, is patterned after the United Nations General Assembly hall.

Pearlman Hall

A circular lounge, walled in glass, is a unique architectural feature of Pearlman Hall. Its main building contains classrooms and seminar rooms and houses the Sociology Department.

Pollack Fine Arts Teaching Center

The expanded art teaching program at the University has made it necessary to provide additional facilities. The Maurice Pollack Fine Arts Teaching Center includes a specially designed lecture hall for teaching art history and a multipurpose studio and photo study room. This center is located between the Art Studios and the University Museum.

Rabb Graduate Center

The rapid growth of the University's Graduate School of Arts and Sciences has made it necessary to expand the facilities allocated for Graduate School programs. The Rabb Graduate Center provides administrative and faculty offices, seminar and teaching rooms, and study space for graduate students.

Rapaporte Treasure Hall

Rapaporte Treasure Hall adjoins the University's main library and is a repository for rare books, incunabula and other treasures. Its upper level serves as the main exhibition area; its balcony accommodates readers and staff. The lower level provides a storage vault for rare items with special safeguards insuring against fire and theft.

Rose Art Museum

Located within the Creative Arts Enclave, the Rose Art Museum is the focal point for the University's rapidly burgeoning art collection. On permanent display are portions of the noted ceramic collection of the late Edward Rose, Trustee Emeritus, and his wife, Bertha. Major loan exhibitions are placed on display during the academic year as well as selections from the University's permanent collection. The wishing pool on the lower level provides a pleasant setting for quiet reverie.

Rosenstiel Basic Medical Sciences Research Building

The Lewis S. Rosenstiel Basic Medical Sciences Research Building is a major science research facility that houses all of the activities of the Rosenstiel Research Center and offers the scientists working in the Center sophisticated and modern scientific facilities and equipment. Located adjacent to existing biochemistry facilities, the Rosenstiel Building has three floors devoted to laboratories and specialized research spaces. In addition, the building includes administrative offices, seminar rooms, a research library, glass blowing facilities and a large instrument resource room. The Rosenstiel Basic Medical Sciences Research Building was created through the largest single gift in the University's history.

Sachar International Center

The Center is a tribute to Abram L. Sachar, first President of Brandeis University, and Mrs. Sachar. It includes classrooms, meeting rooms, a lecture hall, a library-lounge facility, administrative office spaces for all international programs, faculty offices, and the office of the Chancellor of the University. Underwriting for this facility has been provided by a large number of friends as a tribute to Dr. Sachar. The Silver Lecture Hall, the Lazar Library, the Edward and Sadie Goldstein Center for Economics, and the Addison-Golde Terrace are part of the Sachar Center.

Shiffman Humanities Center

Atop a hillside where its glass walls reveal spectacular views of the campus and the country north of Boston, Shiffman Humanities Center employs a new academic concept in educational architecture. Original manuscripts, portraits, and source materials related to courses being offered are displayed in the seminar rooms. The latest in electronic language teaching facilities is employed in the building's language laboratory. Included are the Language and Phonetics, English and American Literature, Classics, Philosophy, Renaissance, Germanic and Asian Studies Halls.

Slosberg Music Center

Located at the campus entrance, the Slosberg Music Center includes classrooms, practice rooms and office facilities for the Music Department. The Center has its own music library and a recital hall with carefully designed acoustics. Slosberg Recital Hall is the location of the University's rich program of chamber music concerts and solo performances. It also houses the University's baroque organ, given by Mrs. Aber D. Unger of Baltimore, Md., as a memorial to her late husband.

Spingold Theater Arts Center

The Spingold Theater Arts Center is a unique and imaginative concept translated into exciting design. With a theater-auditorium as its hub, the circular Center includes areas for every facet of the teaching and performing arts; workshops, design rooms, costume preparation and storage areas, rehearsal and dressing rooms, a little theater and a dance studio. Spacious areas are equipped as classrooms and offices, and the lobby displays painting, sculpture and other treasures. The Center's location on the southwest campus places it at the hub of Brandeis' creative arts teaching facilities.

Stoneman Infirmary

On the forward slope of the campus, near the Castle, the Infirmary houses a first aid treatment room, lounge, and rooms for sixteen bed patients.

Sydeman Hall

This annex to Ford Hall houses laboratories, classrooms, faculty offices, and the University's Department of Security and Safety.

Ullman Amphitheatre

Utilizing a natural bowl below the science quadrangle, the Amphitheatre is the colorful setting for University convocations and commencements.

Wolfson-Rosensweig Biochemistry Building

A unit of the Biochemistry Research Center located to the east of the original science research center and joined to it on all floors, this building provides additional modern laboratories where research in biochemistry and related life sciences is conducted.

Charles H. Yalem Physics Building

A unit of the science research center, the Charles H. Yalem Physics Building includes research offices for theoretical physicists, laboratories for research in physics, and newly developed research areas for investigations in high energy physics.

Athletic Facilities

Memphis Tract

A twenty-six acre area on the east edge of the campus, Memphis Tract contains the Shapiro Athletic Center, Linsey Sports Center, Marcus Field, Gordon Field and Rieger Tennis Courts.

Gordon Field

One of the nation's most modern running tracks rings Gordon Field where the University's track and field squad plays host to teams from throughout the east. The central area provides playing fields for the University's intramural and club football teams and specialized accommodations for intercollegiate field events.

Linsey Sports Center

The Joseph M. Linsey Sports Center includes an Olympic-size swimming pool, squash courts, fencing room and other athletic teaching facilities. Connected to the athletic center, the sports center provides facilities for substantial enhancement of the University's physical education and intercollegiate athletic programs.

Marcus Playing Field

Brandeis' international student body has won respect for its soccer prowess on Marcus Playing Field, which also contains the varsity and practice baseball diamonds and a softball diamond.

Shapiro Athletic Center

Throughout the school year the main gymnasium operates day and night with varsity and intramural competition as well as physical education activities. The gymnasium is also used for public lectures, student dances and major conferences. In addition, classrooms, offices for the physical education faculty, team and physiotherapy rooms and dressing rooms are included in Shapiro Athletic Center.

Rieger Tennis Courts

The Rieger Tennis Courts are used for informal, intramural and intercollegiate tennis competition. They are located to the rear of the Shapiro Athletic Center.

Residence Halls

Campus living accommodations consist predominantly of double rooms, some single rooms and suites. Each residence hall has its own lounge or lounges. Modern laundry facilities and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as desired. Arrangements for linen and towel service may be made through the University. There are nine campus residence areas. Freshmen are assigned rooms in either Massell Quadrangle or Leon Court. Upperclassmen choose accommodations at room drawings held each spring. For more specific information, see "Residence."

East Quadrangle and Swig Student Center

The East Quadrangle residence halls include Hassenfeld House, Rubenstein Hall, Pomerantz Hall, Krivoff House, and Shapiro Brothers Hall. A large central lounge serves all of these buildings, and the entire area is complemented by the Benjamin and Mae Swig Student Center which includes lounge facilities, as well as a terrace for student receptions and social activities. The Swig Student Center is connected to the dormitories of the East Quadrangle by an overhead walk.

The Foster Student Living Centre

This new complex of undergraduate student housing apartments honors Brandeis Fellow Mrs. Joseph C. Foster of Leominster, Mass., her late husband, who was a Trustee of Brandeis, and other members of the Foster family. The innovative design of the Foster Centre, which is located near the University's athletic facilities, features apartments built around a courtyard-duplex format. Groups of four to six students live in an apartment,

each of which is complete with living room, dining room-kitchen, bedroom-study areas, baths, and private entrances. The Foster Centre is made up of four clusters of nine units apiece, providing a total of 36 individual apartments and living accommodations for 186 students.

Charles River Apartments

In order to meet the very substantial need for housing graduate students and married undergraduate students, the University has constructed a cluster of buildings which provides 160 apartments, as well as social facilities and a children's playground. The central building in this complex is named for Max and Ann Coffman of Brockton, Mass., and a second building is named for Brandeis Fellow Ollie A. and Mrs. Cohen of Miami Beach, Fla. The Dushman-Gornstein Commons Room was given by Hyman Dushman of Brockton, Mass., and the Henry and Doris Gornstein Foundation.

Leon Court

Leon Court has four dormitories and a large student center-dining hall grouped around an attractive, wooded quadrangle. Each dormitory unit contains fully equipped student rooms, a lounge and a large recreation room. Dormitories in this quadrangle are the Scheffres, Gordon, Cable and Reitman Halls. The student dining hall is Milton and Hattie Kutz Hall.

Massell Quadrangle

Massell Quadrangle consists of Shapiro, DeRoy, Renfield and Usen Residence Halls, and the Sherman Student Center. Each unit has functionally equipped rooms with maximum living and closet space. Ground floor lounges overlook the central quadrangle and the walks encircling Anne J. Kane Reflecting Pool.

Ridgewood Quadrangle

Emerman, Fruchtmann, Danciger, Allen and Rosen Residence Halls comprise the University's living areas for students on the south campus. Each hall has two lounges opening on the quadrangle.

Rosenthal Dormitories

Adjacent to the Massell Quadrangle are three dormitories which accommodate a total of 168 students.

The Usen Castle

An imposing structure designed after medieval architecture and completed a decade before Brandeis was founded, the Irving and Edyth Usen Castle has been remodelled into single, double, and larger rooms. Its ground floor houses the student-operated coffee shop, *Cholmondeley's*. On the second level of the Usen Castle is the Usen Commons, a circular, conservatory-style lounge, used for dances and social functions. Greater Boston spreads out in a panoramic view from the windows of Usen Commons.

Schwartz Residence Hall

This companion structure to the Usen Castle dormitory houses rooms and a lounge, furnished in contemporary style.

Student Centers

Sherman Student Center

The glass walls of The George and Beatrice Sherman Student Center rise from the ground level to roof, overlooking Massell Quadrangle and the Kane Reflecting Pool. Its ground floor dining hall serves several hundred students daily. Along the upper level are located a large lounge, game room and two smaller dining rooms. Bulletin boards of these rooms serve as the major communications center for student activities, and the walls frequently are hung with special art exhibits. Dances, parties and meetings often occupy the entire building on busy evenings.

Feldberg Lounge

Spacious and comfortable, this glass and brick walled lounge in the Sherman Student Center is used for informal discussions, lectures, songfests and conferences, and is a favorite student meeting place between classes.

Kutz Hall

A towering ceiling, attractive furnishings, and a site overlooking Greater Boston, make Kutz Hall a versatile dining hall. Banquets seating 500 can be held on its main floor. An outdoor terrace and commodious balcony provide unusual settings for receptions and social activities. Folding walls under the balcony permit creation of private rooms for dinner meetings of student or faculty groups. The towering north wall of Kutz Hall mirrors the rest of Leon Court in its more than 8000 square feet of glass.

The Stein

Located in the Sherman Student Center, *The Stein* is a student operated tavern offering sandwiches, light meals, beer and wine. *The Stein* is a popular gathering place for students throughout the academic year.

Usdan Student Center

The Usdan Student Center complex incorporates student social, cultural, and recreational facilities as well as student personnel and administrative services. It is located close to most teaching, residence, dining facilities, and houses an assembly and banquet hall seating 1,000 people, the University bookstore, mailroom, campus cafeteria, lounges and conference rooms for formal and informal student affairs. The director of the Center and the staff maintain a broad program of cultural, social, and educational events. The office of the Director of Residence, and the Director of Student Affairs offices, the Registrar and class advisors, occupy the northeast wing of the building. The Center also houses student clubs and organizations, social areas, music listening and reading rooms, the campus radio station (WBRS-FM), *The Justice* (the student newspaper) and Student Council offices, as well as billiards, table tennis, and other recreational areas. In addition to the main building, the Usdan Student Center includes the Gluck, Scheinfeld, Winer and Wuliger Buildings, the Faneuil Recreation Hall, and the Maurice Levin Memorial Hall.

Dining Halls

University dining halls are located in Usdan and Sherman Student Centers. A separate kosher kitchen is maintained in Sherman. In addition, light refreshments are provided in *Cholmondeley's*, a coffee house operated by students in the Usen Castle, and in *The Stein*, located in the Sherman Student Center. Also in Usdan, is a boulevard of small food shops.

The Three Chapels

The University's three chapels: Berlin (Jewish), Bethlehem (Catholic) and Harlan (Protestant), serve the Brandeis community through services which take place here under the aegis of the Hillel Foundation, the Catholic Campus Ministry and Student Christian Association. Conventional, traditional services as well as innovative and experimental ones are held regularly. The chapels are also used for marriages, christenings, confirmations, etc. Many enjoy the beauty and serenity of the chapels for meditation. A centrally located outdoor pulpit serves larger gatherings.

Brandeis House

Located in New York City, Brandeis House, a gift of the late Brandeis Fellow Mrs. Frances Spingold, serves as the University's New York office and as a base of operations in New York City for the National Women's Committee, the Alumni, and the Parents' Association. The Brandeis House also includes offices for the President and other University staff when in New York City. Renovation costs were underwritten by Mr. Harry Waxman of New York City, a Fellow of the University.

Maintenance Funds

As the University's physical plant expands, the cost of maintaining buildings and grounds imposes increasingly on its general funds. However, supplementations to help meet these costs have been made available through the generosity of individuals and foundations.

Louis D. Beaumont Foundation Fund

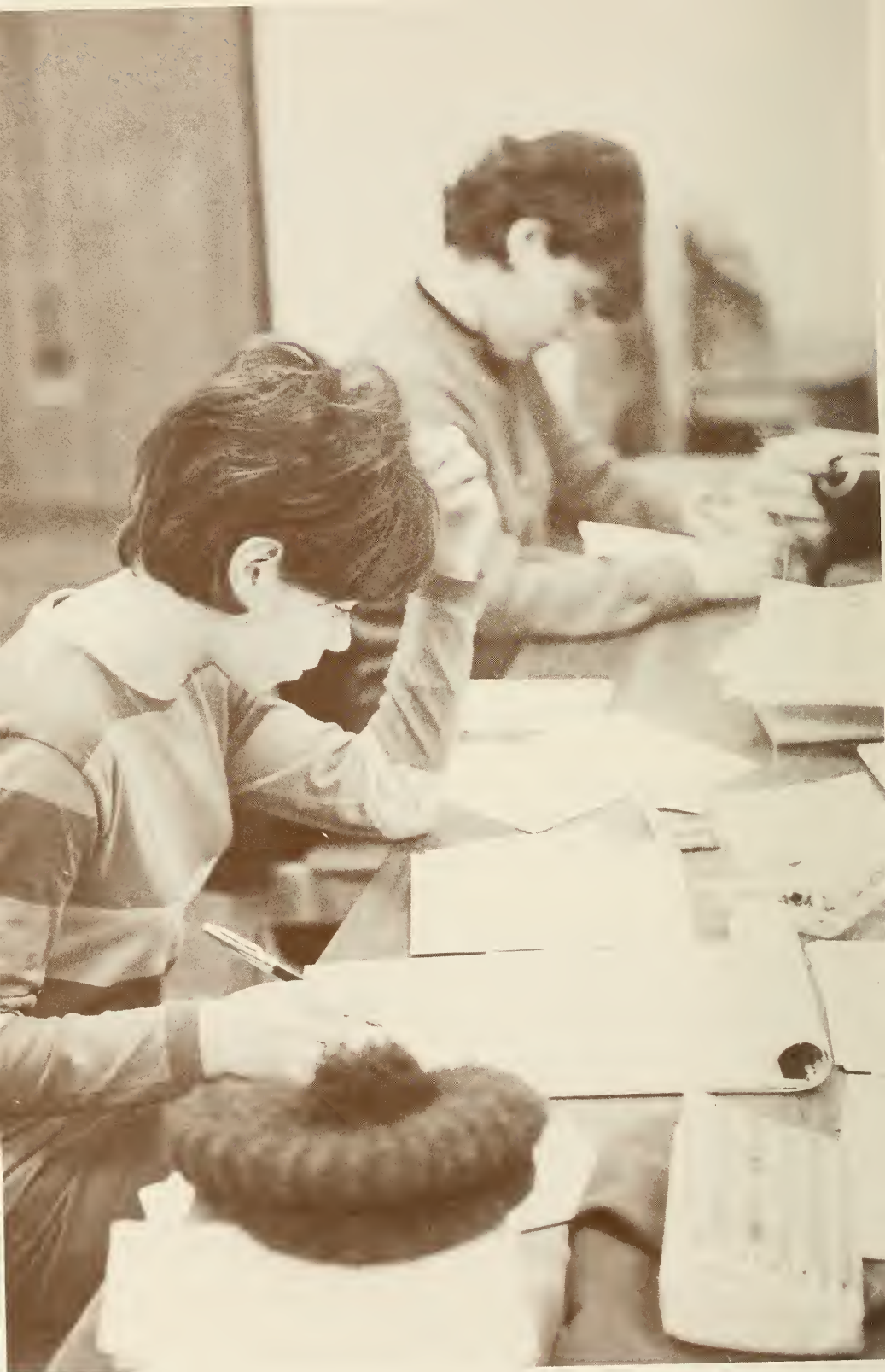
The Louis D. Beaumont Foundation of Cleveland, Ohio, has provided funds for general purposes, including maintenance, since the early years of the University.

Harry Pearlman Endowment Fund

A portion of a major gift to the University by Brandeis Fellow Harry Pearlman of New York, has been directed to building maintenance.

David and Irene Schwartz Fund

Under provisions of a special grant from Brandeis Trustee David and Irene Schwartz, funds have been provided for a systematic landscaping of the campus to achieve a harmony between the terrain's natural beauty and the architecture as conceived and executed by some of the nation's noted architectural figures.



Courses of Instruction, 1976-1977

The undergraduate courses of instruction under the faculty of arts and sciences are listed below. For detailed information, consult the 1976-77 Course Offerings booklet. Courses meet for three hours a week unless otherwise specified.

- a – fall semester course
- aR – identical course given in spring semester
- aA – full course in fall semester—eight credits
- b – spring semester course
- bR – identical course given in fall semester
- bB – full course in spring semester—eight credits
- c – semester course meeting throughout the year
- H – Jacob Hiatt Institute course

A semester course carries one semester course credit (4 semester hour credits) and a year course, two semester course credits (8 semester hour credits). Exceptions are noted under the individual course descriptions. Additional credits are given for laboratory hours, as indicated in the course description. Certain science courses require a “c” laboratory course taken concurrently.

A student may take either half of a year course for credit with the approval and consent of the course instructor, the faculty adviser, and the registrar, on forms obtained at the Office of the Registrar. Certain courses cannot be dropped with credit at the end of the first semester. Students who enrolled in full year courses in the fall term are continued in the spring term automatically without having to file an additional course enrollment card.

The University reserves the right to make any necessary changes in the offerings without prior notice.

Students should refer to the section Officers of Instruction, beginning on page 134 of this catalog to determine the leave status of Brandeis faculty members for the 1976-1977 academic year.

Course Abbreviations

AAAS – African and Afro-American
Studies
AMSTD – American Studies
ANTHR – Anthropology
BCHEM – Biochemistry
BIOPH – Biophysics
BIOSC – Biological Science
BIOL – Biology
BPHYS – Biophysics
CCIV – Classical Civilization
CHEM – Chemistry
CHINE – Chinese

HIDEA – History of Ideas
HUM – Humanities
INCON – Independent Concentration
ITAL – Italian
LAS – Latin American Studies
LASP – Latin American Studies Program
LATIN – Latin
LEGAL – Legal Studies
LING – Linguistics
LIT – Literature
MATH – Mathematics
MEDST – Mediterranean Studies

CHS - Cambridge Humanities
Seminar
CLASS - Classics
COLIT - Comparative Literature
COSCI - Computer Science
CJS - Contemporary Jewish Studies
ECON - Economics
ED - Education
ENCLA - English and Classics
ENG - English
EULIT - European Literature
FA - Fine Arts
FREN - French
FWS - Freshman Writing Seminar
GER - German
GSCI - General Science
GREEK - Greek
HEB - Hebrew
H - Hiatt Institute
HIST - History
CHIST - Comparative History

MEVAL - Medieval Studies Program
MUSIC - Music
NEJS - Near Eastern and Judaic Studies
PE - Physical Education
PHBIO - Photobiology
PHIL - Philosophy
PHSCI - Physical Science
PHYS - Physics
PLING - Psycholinguistics
POL - Politics
PREMD - Premedical Program
PSYCH - Psychology
RUS - Russian
SOC - Sociology
SOVST - Soviet Studies Program
SOWEL - Social Welfare
SPAN - Spanish
THA - Theater Arts
UC - University Course
URBST - Urban Studies
Y - Yiddish

***Not to be given in 1976-77**

University Courses

***UC 73d (PHIL 60b) (PHSCI 3b)** Twentieth Century Physics and its Philosophical Implications

UC 73e (HIST 80a) Introduction to East Asian Civilization

***UC 73f (PHIL 20b)** On Being a Person: Problems and Prospects

UC 75d (PHIL 75b) Science and Ethics

***UC 75e (CLASS 8br) (HUM 8br)** Greek and Roman Mythology

UC 75f (POL 196b) Contemporary Political Theory

***UC 75g (ANTHR 37aR)** Modes of Thought

***UC 75h (CHEM 1aR)** The Splitting of the Atom

UC 76d (PHIL 194b) (PSYCH 194b) (LING 194b) Language and Mind

UC 72g, UC 73e, UC 73f, UC 75e and UC 76d satisfy the distribution requirement in humanities.

UC 75f and UC 75g satisfy the distribution requirement in social science.

UC 75h satisfies the distribution requirement in science.

UC 75d does not satisfy the distribution requirement in humanities or science.

UC 73d satisfies the distribution requirement in science and humanities.

UC 73e and UC 76d satisfy the distribution requirement in humanities and social science.

UC 75e satisfies the distribution requirement in humanities.

Field Study

During their junior or senior year, undergraduates may undertake a substantial research project in certain fields of concentration *in lieu* of four semester courses. Research may be conducted either on campus or in the field—execution of the project may involve prolonged absence from the Brandeis campus—at another institution, government agency, etc. The Field Study project must have the approval of the student's department of concentration. The project will be supervised by a faculty adviser assigned by the department and a second member of the faculty will participate in one evaluation of the student's work and the assignment of a grade. Work in the project may occupy a full semester (then to be recorded as 90a or b) or it may be of two semesters' duration (to be recorded as 90). In the latter case the two semesters must be consecutive. The student may offer no more than two semester-course credits from the Field Study course toward his or her department's concentration requirement. Interested students should explore the possibility of Field Study in their concentration with a faculty member in the appropriate department.

Freshman Seminars

The Freshman Seminars are small informal classes designed to establish a close working relationship between the students in the seminar and the professor. The seminars are offered in different fields of study; each is limited to 12 freshmen. Problems of major interest in each field are examined in depth. Emphasis is on analysis, discussion and writing. Each seminar instructor is the academic adviser to the students in his or her seminar.

AAAS 14a The Excluded Society: Comparative Studies of the Oppressed Community

BIOSC 6a Biology Freshman Seminar

COLIT 7a The European Tradition in the Humanities

ECON 6a Technology, Resources, and Welfare

ENG 8a Art and Nature

***HIST 5a** The English Revolution, 1640-1660

HIST 6a American Imperialism in Southeast Asia

***HIST 7a** Stalin and the Third Revolution

HIST 8a Medieval Family

PHIL 56a Materialism and the Mental

PHYS 5b Physics as Science and Metaphor

PSYCH 3a Nature, Art, and Illusion

RUS 7a Nineteenth Century Russian Literature: The Writer and Society

SOC 1b Identity and Youth Culture

The Cambridge Humanities Seminar

The Cambridge Humanities Seminar is a collaborative effort by universities in the Boston-Cambridge area to enrich and diversify their interdisciplinary offerings in the humanities at an advanced level. The program is centered at M.I.T. and currently involves faculty from M.I.T., Boston University, Brandeis University and Wellesley Col-

lege. The faculty are drawn from departments of literature, philosophy, history and the fine arts. The program offers a concentration to students in the humanities during the last two years of undergraduate and the first two years of graduate work in an area of scholarship periodically determined by its membership. Its current subject is *Reinterpretation: The Idea of the Past in Art, Science and Literature*. Seminar discussions of this subject are held by the faculty on a bi-weekly basis and are open to students in the program upon application. For further information contact Professor Alvin C. Kibel, M.I.T. (253-3581); Professor Eugene Goodheart, Boston University (353-2506); Professor Philip Fisher, Brandeis University (647-2639); or Professor Ingrid Stadler, Wellesley College (235-0320).

The following subjects will be offered by the Cambridge Humanities Seminar in 1976-77. Classes will meet one afternoon a week from 2:00 to 5:00 p.m., generally at M.I.T., and may be taken for credit by students at participating institutions.

Fall Term

- CHS Painters and Issues in Modernism
- CHS Culture and Criticism
- CHS Psychoanalytic Social Thought

Spring Term

- CHS Ideas of Progress
- CHS Darwinism and Culture
- CHS The Strategies of "Modernism" in the Arts



AFRICAN AND AFRO-AMERICAN STUDIES

Assistant Professor Wellington Nyangoni, *Chairman*; Assistant Professors Helen L. Stewart, Duane R. Taylor; Lecturers Shirley L. Hall, Ernest Wamba; Instructors Lemuel B. Carroll, Patricia J. Gibson, Robert C. Jones, Glenn M. McNatt, Marcos G. Namashulua.

Requirements for Concentration

All majors are expected to satisfactorily complete eight or more semester courses in African and Afro-American Studies. Two semesters at the introductory level must be completed before all requirements have been met. The courses meeting this requirement are AAAS 5a, *Introduction to African and Afro-American Studies* (focus on Africa) and AAAS 5b, *Introduction to African and Afro-American Studies* (focus on Afro-America). The purpose of the introductory course is to provide students with a general overview and a historical perspective on problems that Africans and African-Americans encounter, and to the field of African and Afro-American Studies as an academic endeavor.

AAAS 5a Introduction to African and Afro-American Studies

AAAS 5b Introduction to African and Afro-American Studies

AAAS 7a Introduction to African History

AAAS 14a Freshman Seminar: The Excluded Society: Comparative Studies of the Oppressed Community

AAAS 50a Black Political Economy

AAAS 50b Black Political Economy

AAAS 90 Independent Field Study

AAAS 90a, b Independent Field Study

AAAS 97a, b Readings, Research, Community Involvement

AAAS 98a, b Readings, Research, Community Involvement

AAAS 99 Senior Research

AAAS 101aR The Black Family in America

AAAS 104a (MUS 31a) Black Life Styles Through Music

AAAS 105b (MUS 31b) The Music of Black Americans

AAAS 107a (ED 107a) Seminar: Teaching of Elementary Reading and Educational Materials Workshop

AAAS 107b (ED 107b) Seminar: Teaching of Elementary Reading and Educational Materials Workshop II

AAAS 110 Swahili I

AAAS 112 Swahili II

AAAS 119a An Introduction to the Cultural History of the Caribbean

AAAS 119b Race, Identity and Political Consciousness in the Caribbean

AAAS 122b Black Political and Social Thought

AAAS 123b Third World Ideologies

AAAS 125a Political Development in the Black Community

AAAS 132bR An Introduction to African Literature

AAAS 135a (THA 145a) Black Drama I

AAAS 135b (THA 145b) Black Drama II
AAAS 161aR (POL 141aR) National and International Politics of South Africa
AAAS 170b Black Curriculum: Development and Design
AAAS 190a Economic Development and Black People
AAAS 195bR Readings and Research in Afro-American Schooling History

AMERICAN STUDIES

Professor Lawrence H. Fuchs, *Chairman*; Professors Max Lerner (*Emeritus*), John F. Matthews; Associate Professor William M. Goldsmith; Assistant Professors Jacob Cohen (*Advising Head*); Susan Forbes, Stephen J. Whitfield; Lecturers Peter D. Witt (*Director Education Program*), Richard S. Tedlow, (*Lecturer with Rank of Assistant Professor*).

Nature of the Program

An interdisciplinary approach to American culture (myths, values, ideas, institutions, and behavior) and to the questions raised by the influence of American society in shaping the modern world. Students work closely with staff in developing an individualized plan of study by the end of the sophomore year or early in the junior year. Either an extensive senior paper or participation in the senior tutorial program is required of all concentrators as the culmination of their work in the department.

Special opportunities can be provided for supervised field work.

Requirements for Concentration

A. Required of all candidates: (a) American Studies 102a,b or 100 a,b or their approved equivalents; (b) American Studies 10a or 10aR; (c) American Studies 98a or 99; (d) The equivalent of six semester courses in American Studies, chosen either within the department or elsewhere with departmental approval.

The consent of the instructor is required for American Studies 97 a,b, 98a and American Studies 99.

AMSTD 8a (ENG 6a) (HUM 4a) American Literature from 1832 to 1900

AMSTD 9aR (ENG 7aR) (HUM 4b) American Literature from 1900 to 1965

AMSTD 10a Problems in American Civilization

AMSTD 85b Strategies for Educational Change

AMSTD 90a Independent Study

AMSTD 97a,b Readings in American Studies

AMSTD 98a Senior Seminar

AMSTD 99 Senior Honors Research

AMSTD 100a Classic Studies of American Civilization Through 1914

AMSTD 100b Classic Studies of American Civilization: The 20th Century

AMSTD 101aR American Reactions to Europe: 1780-1970

***AMSTD 102a** Patterns of American Thought to 1865

AMSTD 102b Patterns of American Thought: 1865-Present

- AMSTD 104a (HIST 168a)** Between the Past and the Present: American Culture, 1890-1917
- ***AMSTD 105a** Man and Nature in America
 - ***AMSTD 106b** Brave New World: Science and Technology in America, 1890-1970
 - ***AMSTD 107a** The American as Autobiographer
 - ***AMSTD 108a** Concepts of Culture and Community in America
 - AMSTD 109a (LEGAL 101a)** The Legal Process
 - AMSTD 110b** The Growth of Presidential Power
 - AMSTD 111a** The Structure of Power and the Political Process
 - ***AMSTD 112a** Strategies of Political and Social Change: The Agrarian Revolt and the Progressive Era
 - AMSTD 112b** Strategies of Political and Social Change: The Great Depression and the New Deal
 - AMSTD 114bR** Aspect of the American Character
 - ***AMSTD 115a** The University in America
 - AMSTD 117a** 20th Century American Biography
 - AMSTD 120a** Law and Society
 - ***AMSTD 120b** The Detective Story
 - ***AMSTD 121b** American Religions, Sex and the Family
 - AMSTD 122a (FA 122a)** American Architecture and Painting
 - ***AMSTD 123b** Women in American History
 - ***AMSTD 125a (THA 125a)** History of American Drama: 1665 to 1919
 - ***AMSTD 125b (THA 125b)** History of American Drama: 1919 to the Present
 - AMSTD 127a (ECON 122a) (HIST 155a)** American Economic History
 - AMSTD 128a** The Civil War Era
 - ***AMSTD 135b (THA 135b)** The History of Popular Arts in America
 - ***AMSTD 140a** Economic Growth and American Society
 - AMSTD 140b** Business Values and Businessmen
 - ***AMSTD 150b (SOC 172b)** The Family in the United States
 - AMSTD 155a** Topics in History of American Medicine
 - AMSTD 155b (CJS 155b)** Health and Longevity in the United States
 - AMSTD 160b** The 1920's: Culture and Society
 - ***AMSTD 165a** Definition of Self: Woman in American Culture
 - AMSTD 165b** Mass Communication in America
 - AMSTD 169a (CJS 175a) (SOC 169a)** Religion and Ethnicity in American History
 - AMSTD 170a** The Idea of Conspiracy in American Culture
 - AMSTD 175aR** Violence in American Life
 - ***AMSTD 180b** Problems in Contemporary American Education
 - AMSTD 185b (HIST 168b)** American Political and Social Thought Since World War II
 - ***AMSTD 192a** Social Welfare Programs in the United States
 - ***AMSTD 193b** Field Study of a Social Welfare Problem
 - ***AMSTD 194aR** Social Welfare Policy and the Law
 - AMSTD 195a** The Philosophy and Practice of Rehabilitation in the United States
 - AMSTD 195b** Special Education: An American and International Perspective
 - AMSTD 196a** The Delivery of Medical Care in the United States

ANTHROPOLOGY

Associate Professor Benson Saler, *Chairman*; Professors Helen Codere, George L. Cowgill, David Kaplan, Robert A. Manners; Associate Professors David E. Jacobson (*Graduate School Advisor*), Robert C. Hunt, Marguerite S. Robinson; Assistant Professors Dave D. Davis, Marvin Davis (*Undergraduate Student Advisor*), David Agee Horr, Judith T. Irvine; Instructors Judith Francis Zeitlin, Robert N. Zeitlin.

Requirements for Concentration

A. Required of all candidates: ANTHR 1; 2 or 3; 83a plus five semester courses in anthropology and two semester courses above the introductory level, in other departments of the School of Social Science. Honors candidates are required to take an additional course, ANTHR 99.

Anthropology concentrators who wish to take a combined concentration in anthropology and linguistics will be required to take:

1. ANTHR 1; 2 or 3; 83a; 102a and b.
2. Three additional anthropology courses from those listed in the departmental offerings.
3. Three of the following courses in linguistics: ENG 191b, 193a, 196a and b, 197b.

B. Anthropology and Behavioral Studies. Students majoring in anthropology with an interest in animal behavior may prepare themselves with a coordinated set of 16 courses drawn from anthropology, biology, and psychology. (Psychology concentrators also have a parallel psychology and animal behavior alternative open to them.)

The students would take the following courses:

ANTHR 1aR, 3a, 83a, 111a, 112a, 115a, 212a and b.

BIOL 10a and b, 12a and b.

PSYCH 2a, 11a, 119a, and one of the following: 118b, 120aR, sec 2, 140a, 141a, 177a, or 127a.

Directed field or laboratory research in behavior will be available in connection with ANTHR 99.

C. Those planning to go on to graduate work should consult carefully with their advising head regarding course selections. Where prerequisites are listed, they must be fulfilled satisfactorily before enrollment in the stipulated course, except under extraordinary circumstances with permission of the chairman of the department.

ANTHR 1a,aR Social Anthropology

ANTHR 2a The Development of Prehistoric Societies

***ANTHR 3b** Introductory Physical Anthropology

ANTHR 15b The Family in Cross-Cultural Perspective

ANTHR 19b Hunters and Gatherers

***ANTHR 37aR** Modes of Thought

ANTHR 83aR Anthropological Enquiry

ANTHR 90 Independent Field Study

ANTHR 98a Readings in Anthropology

ANTHR 99 Senior Honors Research

ANTHR 102a Anthropological Linguistics I

- ANTHR 102b Anthropological Linguistics II
- ANTHR 103b Language, Society and Culture
- ANTHR 105aR Ritual, Myth and Symbol
- ANTHR 109b (MEDST 109b) Archaeological Methods
- *ANTHR 110aR Physical Anthropology
- ANTHR 111a Primates
- *ANTHR 112bR Evolution and Natural Selection
- ANTHR 115aR Culture and Biology
- ANTHR 120b The Anthropology of Law
- *ANTHR 122aR The World Before Civilization
- *ANTHR 123a Archaeology and Prehistory
- *ANTHR 124a Civilizations of Mesoamerica
- *ANTHR 125b Origins of East Asian Civilizations
- ANTHR 127a The First Complex Societies and Cities
- ANTHR 128b Origins of African Cultures
- ANTHR 131 (MEDST 115) The Archaeology of Anatolia
- ANTHR 133a Modern Africa
- ANTHR 135b Peoples and Cultures of India
- ANTHR 140a Prehistory of North American Indians
- *ANTHR 141b The American Indian
- ANTHR 144aR Indians of South America
- ANTHR 146a (MEDST 146a) Environment and Archaeology
- ANTHR 151a Social Organization I
- ANTHR 151b Social Organization II
- ANTHR 152bR Economic Anthropology
- ANTHR 153bR (MUSIC 180bR) Ethnomusicology
- ANTHR 154a Comparative Religion
- *ANTHR 155b Psychological Anthropology
- ANTHR 156a Political Anthropology
- ANTHR 158aR Urban Anthropology
- *ANTHR 160b An Anthropological Perspective on the Third World
- *ANTHR 161b Culture and Cognition
- *ANTHR 165a Modernization and Social Change
- ANTHR 170a Peasant Cultures: Past and Present
- ANTHR 171a The Comparative Method
- ANTHR 175a Pro-Seminar in Anthropological Theory: I
- ANTHR 175b Pro-Seminar in Method in Cultural Anthropology: II
- ANTHR 177b (MEDST 177b) Archaeological Method and Theory
- *ANTHR 180b Historical Anthropology

BIOCHEMISTRY

Professor Robert H. Abeles, *Chairman*; Professors Gerald D. Fasman, David M. Freifelder, William P. Jencks, Lawrence Levine, John M. Lowenstein, Susan Lowey (Rosenstiel Center), Alfred G. Redfield (Rosenstiel Center), Serge N. Timasheff, Helen Van Vunakis (*Advising Head*); Associate Professors Thomas C. Hollocher, Jr., William T. Murakami, Robert F. Schleif, Morris Soodak; Assistant Professors Jen-Shiang Hong, Christopher Miller, Pieter C. Wensink (Rosenstiel Center).

Requirements for Concentration

A. Required of all candidates: CHEM 11a and b or 15a and b; Lab 18a and b; CHEM 25a and b; Lab 29a and b; CHEM 41a and b; Lab 49a and b (optional); BCHEM 100; BCHEM 21, 103a or 104b. Math and physics prerequisites for these courses must also be taken.

At least two electives in biochemistry, biology, chemistry and/or physics are required. Electives may not be chosen from elementary courses. Courses numbered 90-99 do not satisfy the elective requirements.

A premedical student should take BCHEM 21 or BIOL 20 or 21 and BIOL 30 plus one year of biology laboratory (BIOL 12). Exemptions are possible for some of these courses if the special examinations given by the biology department are passed.

Joint majors, e.g. BCHEM-BIOL or BCHEM-CHEM are possible if concentration requirements in both departments are met.

B. Honors Program: BCHEM 101 and BCHEM 99. Students who wish to be considered for the honors program in biochemistry should have a generally satisfactory academic record and honor grades in the required science courses. A candidate for distinction is required to petition the staff at the beginning of the senior year. If action on this petition is favorable, an honors program will be devised for the student. This honors program must be approved by the staff at the beginning of the senior year and must be successfully completed by the student in order to obtain distinction in biochemistry.

Students taking BCHEM 99 may receive from eight to twelve credits per year for this course. The number of credits will be determined by the research supervisor of the 99 course and the department head. A satisfactory written report including the results of an independent investigation is required by the department.

C. Candidates for departmental honors may be admitted to a special four-year M.A. program upon the recommendation of the department and the Graduate School.

BCHEM 21a,aR Introduction to Molecular Biology

BCHEM 40a (BIOL 40a) Developmental Biology

BCHEM 99 Research for Undergraduates

BCHEM 100a Introductory Biochemistry

BCHEM 100aR Introductory Biochemistry

BCHEM 101a, b Advanced Biochemistry

BCHEM 102a (BIOL 112a) Immunochemistry

BCHEM 103a Advanced Molecular Biology

BCHEM 104b (BPHYS 104b) Introduction to Physical Biochemistry

BIOLOGY

Professor Andrew G. Szent-Gyorgyi, *Chairman*; Professors Carolyn Cohen (Rosenstiel Center), Herman T. Epstein, Chandler M. Fulton, Harlyn O. Halvorson (*Director*, Rosenstiel Center), Alfred Nisonoff (Rosenstiel Center); Associate Professors Joseph C. Denniston (*Adjunct*), Attila O. Klein, (*Undergraduate Advisor*), Gjerding Olsen, Raymond E. Stephens; Assistant Professors James E. Haber (Rosenstiel Center), Jeffrey C. Hall, John E. Lisman, Joan L. Press (Rosenstiel Center), Bryan E. Roberts, Michael Rosbash (Rosenstiel Center), Robert D. Stout (Rosenstiel Center), Judith E. Tsipis, Kalpana P. White.

Photobiology Institute

Professor Jerome A. Schiff, *Chairman*; Professors Martin Gibbs, Albert Kelner.

Requirements for Concentration

A. Required of all candidates: BIOL 12a, b; BIOL *or* BCHEM 21a *or* aR; BIOL 31a *or* aR; BCHEM 100a *or* aR; BIOL 40a *or* aR; CHEM 10a, b *or* 11a, b *or* 15a, b with 18a, b *or* 19a, b; CHEM 25a, b with 29a, b; MATH 10 *or* 12; PHYS 10 with 18c *or* 11 with 19c; and three elective courses chosen from the following: CHEM 41 or any offering of the biophysics program, biology and biochemistry departments (excluding courses numbered 90-99.)

B. Premedical and predental requirements: BIOL 12a, b; BIOL *or* BCHEM 21a *or* aR; and BIOL 31a *or* aR will satisfy the general biology entrance requirement of most medical schools.

C. Joint Biology-Chemistry Option: A student may graduate with a joint major in biology and chemistry if in addition to BIOL 12a, b, BIOL *or* BCHEM 21a *or* aR, BIOL 31a, *or* aR, BIOL 40a *or* aR and BCHEM 100 she/he elects: CHEM 41a, b and 49a, b, 121a; PHYS 31a *or* MATH 20a *or* 21a.

D. Biophysics Option: To encourage students wishing to concentrate in biology to acquire the extra mathematical, physical, and chemical background needed for the area of biophysics, the department offers an option which contains a reduced number of biology courses and an increased number of courses in the other science areas. Students will take: MATH 10a, and 19b *or* 10b, *or* 12 and 20 *or* equivalent; CHEM 10, 11, *or* 15 with 18a, b *or* 19a, b and 25a, b, with 29a, b and 41a, b; PHYS 10 *or* 11 with 18c *or* 19c, and 20a, b, 152b; BIOL *or* BCHEM 21a *or* aR and BIOL 31a *or* aR; and three courses chosen from among BIOL 32a, 41a, 102b, and BCHEM 100a *or* aR, 104b; BPHYS 101a, b.

Students with an honor grade average in science courses taken before the senior year may petition to the department to accept successful completion of the biophysics option as fulfilling the departmental requirements for distinction.

E. Biochemistry Concentration: There is a biological option open to students concentrating in biochemistry. Such students will be advised jointly by members of both departments. For details see biochemistry concentration requirements.

F. Satisfactory grades must be maintained in all biology courses offered for concentration, and no more than one D will be allowed in any other course offered toward the requirements in this department.

G. Advanced Standing: Credit for a year of Biological Science will be awarded upon successful completion of the Advanced Placement Examination with a grade of 3, 4, or 5.

In order to concentrate in biology, however, any such candidate must also pass a departmental examination which is equivalent to the final examinations given in BIOL 21 and 31. BIOL 12a, b (general biology laboratory) required of all majors and premedical students may also be exempted by examination.

Prospective biology majors are urged to take the Advanced Placement examinations given during the first week of classes so that they may be considered for advanced standing by the biology staff.

A student is eligible for advanced standing in any course in the biology department if she/he is (a) recommended for advanced standing by the staff member teaching the course in question and (b) if this recommendation is approved by the biology staff. Minimum requirement is the satisfactory passing of an examination equivalent to the final examination normally administered for the course for which advanced standing is requested.

No course offered for concentration requirements in biology may be taken on a pass/fail basis.

H. Students who wish to be considered for honors in biology should have a generally satisfactory academic record and honor grades in the core biology courses. A candidate is required to petition the biology staff at the beginning of her/his senior year. If action on this petition is favorable an honors program will be devised for the student. This usually includes laboratory research (under BIOL 99). This program must be successfully completed by the student in order to obtain distinction in biology.

I. Students taking BIOL 99 receive twelve credits per year for this course. A satisfactory written report including the results of an independent investigation is required by the department.

BIOSC 1a Humanistic Biology

BIOSC 3aR Research Case Studies

BIOSC 4a Heredity

BIOSC 5b Cell Physiology

BIOSC 6a Biology Freshman Seminar

BIOL 12a, b General Biology Laboratory

BIOL 21a,aR Genetics and Molecular Biology

BIOL 25a Introduction to Marine Ecology

***BIOL 26a** Biology of Plants

BIOL 31a, aR Cell Biology

BIOL 32a General Microbiology

BIOL 40a, aR (BCHEM 40a) Developmental Biology

BIOL 41a General Physiology

***BIOL 50a** Human Nutrition

BIOL 98a, b Reading in Biology

BIOL 99 Senior Research

BIOL 100a, b (PHBIO 100a, b) Photobiology of Cells and Organelles

***BIOL 101b** Comparative Physiology of Animals

BIOL 102b (BPHYS 102b) Structural Biology

BIOL 104aR Molecular and Cellular Basis of Development

BIOL 105b Advanced Genetics

***BIOL 107a** Behavioral Genetics

***BIOL 108a** Vertebrate Endocrinology

- *BIOL 110b Physiology of Animal Photoreceptors
- BIOL 112a (BCHEM 102a) Immunochemistry
- *BIOL 120b The Eukayotic Genome
- BIOL 124b Animal Virology Seminar
- BIOL 125b Immunobiology
- *BIOL 140b (PHBIO 140b) DNA Repair: Its Genetic and Evolutionary Aspects
- *BIOL 150b Advanced Seminar in Human Nutrition
- BIOPHYS 101a, b (PHYS 37a, b) Biophysical Optics
- BIOPHYS 102b (BIOL 102b) Structural Biology
- BIOPHYS 104b (BCHEM 104b) Introduction to Physical Biochemistry
- BIOPHYS 152b (PHYS 152b) Biological Assembly

CHEMISTRY

Professor Kenneth Kustin, *Chairman*; University Professor Saul G. Cohen; Professors Paul B. Dorain, Sidney Golden, Ernest Grunwald, James B. Hendrickson, Henry Linschitz, Myron Rosenblum, Robert Stevenson; Associate Professors Emily P. Dudek (*Adjunct*), Irving R. Epstein (*Student Advisor*), Michael J. Henchman, Peter C. Jordan (*Graduate Advisor*), Colin Steel, Thomas R. Tuttle, Jr.; Assistant Professors Iu-Yam Chan, Bruce M. Foxman, Philip M. Keehn, Ronald J. Parry; Lecturer Donald J. Ciappenelli.

Requirements for Concentration

A. Required of all candidates: CHEM 10a, b or 12a, b lectures with 18a or 18aR laboratory or 11a,b or 15a,b lectures with 18a,b or 19a,b laboratory; 25a,b lectures with 29a,b laboratory; 41a,b lectures with 49a,b laboratory; CHEM 121a or BCHEM 100a; MATH 10 or 11 or 12; PHYS 10 or 11 and 18c or 19c. In addition, one of the following two options: I. PHYS 31a,b or MATH 20a,b or 21a,b, or 22a,b. II. PHYS 31a or a semester course in mathematics numbered 20 or above, and either CHEM 121a (if biochemistry has been elected) or one semester of biology or one semester of an advanced course in physics.

CHEM 10a,b, or 11a,b, or 12a,b, or 15a,b satisfies the University distribution requirement in science. With one year of the associated laboratories these courses will satisfy the general chemistry entrance requirements of most medical schools. The organic chemistry entrance requirements of most medical schools will be satisfied by CHEM 25a,b lectures and CHEM 29a,b laboratory. A suggested 4-year program for chemistry concentrators appears in item G.

B. Requirement for candidates for degrees with departmental honors: eight semester courses in chemistry, including CHEM 121a, with a B or higher average in courses offered for concentration.

C. A student who plans to do graduate work in chemistry is urged to take CHEM 121a and 129a. If the program selected to fulfill the requirement in Section B includes CHEM 110b, this program will meet the standards for certification by the American Chemical Society. A reading knowledge of a foreign language, although not required for professional undergraduate education in chemistry, is strongly recommended, particularly for students planning advanced study in science. German is especially helpful.

D. A student may graduate with a joint concentration in biology and chemistry if the concentration requirements in chemistry are met and the course of study includes BIOL 12a,b; BCHEM 20aR or BIOL 21a or 21aR; BIOL 31a or 31aR; 40a or 40aR, BCHEM 100a, and an appropriate one-semester elective in biology or biochemistry.

E. If the concentration requirements for chemistry are met and the course of study includes BCHEM 100a, 103a, 104b and the appropriate electives in the School of Science, the student will have satisfied the requirements for a joint concentration in chemistry-biochemistry.

F. Candidates for departmental honors may be admitted to a special four-year M.A. program upon recommendation of the department and the Graduate School.

G. The following constitutes a sample four-year program for concentration in chemistry. Suggested options are given with alternatives in parentheses. In particular, note that it is strongly recommended that PHYS 10 or (preferably) 11 and a semester of mathematics at the 20 level or (preferably) PHYS 31a be taken in the sophomore year so that the student may complete CHEM 41a,b lectures and CHEM 49a,b laboratory in the junior year. This program makes it possible for students to take advanced courses and honors work during the senior year. Premedical requirements may be fulfilled within this program by taking a year of biology with laboratory in the junior year.

First year: CHEM 11 or 15 (or 10 or 12); CHEM 18 or 19
MATH 11 or 12 (or 10)

Second year: CHEM 25; CHEM 29
PHYS 11 (or 10); PHYS 19c (or 18c)
PHYS 31 (or MATH 20 or 21; or one semester of biology
plus PHYS 31a or MATH 20a or 21b)

Third year: CHEM 41; CHEM 49
(If premed, BIOL 21a, 31aR; BIOL 12)

Fourth year: CHEM 121a (or BCHEM 100a)
(Honors electives)

***CHEM 1a (UC 75H)** Chemical Science

***CHEM 10a, b** Elementary General Chemistry, Lectures

CHEM 11a, b General Chemistry, Lectures

CHEM 12a, b Introductory General Chemistry, Lectures

CHEM 15a, b Advanced General Chemistry, Lectures

CHEM 18a, aR, b Introductory Chemistry Laboratory

CHEM 19a, b Chemistry Laboratory I

CHEM 25a, b Organic Chemistry, Lectures

CHEM 29a, b Chemistry Laboratory II

CHEM 41a, b Physical Chemistry, Lectures

CHEM 49a, b Chemistry Laboratory III

CHEM 71a Mathematical Techniques for Chemistry

CHEM 95 Directed Studies in Chemistry

CHEM 99 Senior Honors Research

***CHEM 110b** Instrumental Chemical Analysis

CHEM 121a Inorganic Chemistry I, Lectures

***CHEM 122b** Inorganic Chemistry II, Lectures

***CHEM 123b** Nuclear Chemistry

- *CHEM 129b** Inorganic Chemistry Laboratory
- CHEM 130a** Advanced Organic Chemistry: Structure
- CHEM 131a** Advanced Organic Chemistry: Topics in Structure and Reactivity
- CHEM 132b** Advanced Organic Chemistry: Spectroscopy
- *CHEM 133b** Advanced Organic Chemistry: Mechanisms
- *CHEM 134b** Advanced Organic Chemistry: Synthesis
- CHEM 141a, b** Advanced Physical Chemistry I
- CHEM 142b** Advanced Physical Chemistry II
- CHEM 143a** Advanced Physical Chemistry II
- CHEM 144aR** Structure and Spectroscopy
- BCHEM 100a, aR** Introductory Biochemistry

CHINESE

CHINE I: Elementary Chinese

CLASSICS

Professor Douglas J. Stewart, *Chairman*; Assistant Professors William E. Higgins, Patricia A. Johnston, Leonard C. Muellner; Instructor Laura L. Nash.

Requirements for Concentration in Classics

- A. Eight semesters in Greek and Latin above the second year level, with at least two in each language.
- B. One semester in Greek, Latin, or allied fields, as approved by the student's advising head.
- C. A semester in Greek history and one in Roman history.
- D. For honors candidates, Greek or Latin 99.

Requirements for Concentration in Classical Civilization

- A. Four semester courses in Greek *or* Latin above the second year level.
- B. A semester course in Greek *or* Roman history.
- C. A combination of five semester courses selected from among courses taught in the following departments or programs: Comparative literature, English, fine arts, history, history of ideas, Mediterranean studies, NEJS, philosophy, politics, Romance languages, and theater arts.

- GREEK 1bB** Accelerated Introductory Greek
- GREEK 6a** Introduction to Athenian Literature

- GREEK 6b Homer
- GREEK 98a, b Directed Reading
- GREEK 99 Directed Research
- GREEK 116a Aristophanes
- GREEK 116b Aeschylus
- GREEK 118a Euripides
- *GREEK 118b Sophocles
- GREEK 120a Plato
- GREEK 120b The Greek Historians
- LATIN 1aA Accelerated Introductory Latin
- LATIN 2 The Elements of Latin
- LATIN 6a The Metamorphoses of Ovid
- LATIN 6b Latin Prose Authors
- LATIN 98a, b Directed Reading
- LATIN 99 Directed Research
- *LATIN 116a Roman Historians
- LATIN 116b Roman Drama
- LATIN 118a Latin Lyric Poets
- *LATIN 118b Satura
- *LATIN 120a Latin Epic Poets
- CLASS 4a (FA 31a) The Art of Greece and Rome I
- CLASS 4b (FA 31b) The Art of Greece and Rome II: The Art of the Etruscans and Romans
- *CLASS 8bR (HUM 8bR) (UC 75e) Greek and Roman Mythology
- CLASS 9a Greek Religion
- *CLASS 101A (*HIST 101a) Greek History
- *CLASS 101b (*HIST 101b) Topics in Greek History: Alexander the Great
- CLASS 102a (HIDEA 102a) (HIST 102a) Survey of Roman History
- CLASS 102b (FA 141b) (HIDEA 102b) (HIST 102b) Pagan and Christian Thought and Art in the Late Roman Empire

COMPARATIVE LITERATURE

Committee: Associate Professor Luis E. Yglesias, **Chairman and Adviser:** Professors Edward Engelberg, Denah L. Lida; Associate Professors Andrée M. Collard, Stephen J. Gendzier, Erica Harth, Alan L. Levitan; Assistant Professors Bradley M. Berke, William J. Cloonan, Richard H. Lansing, Peter Varkonyi.

Any student is welcome to any course in the program (unless otherwise specified by the instructor). The common class text is in English.

In all Comparative Literature courses taken under requirements B and C, concentrators are required to read in the original the works written in the language of their concentration.

Requirements for Concentration

- A. EULIT 100a and 100b in the first year of the concentration taken *in sequence*.
- B. Either COLIT 145a and 145b *or* COLIT 120a and 130b. Concentrators must take 145a and 145b *or* 120a and 130b as a full year course and must do so *in sequence*. (These sequences are offered in alternate years). In addition, either COLIT 116b or 148b (or any course *not* taken under the year sequence above).
- C. Two semester courses chosen from COLIT 133b, 137a, 147b, 150a, 156b, 175b, 180a, 187b, 192a, 194bR, 199b *or one* of the courses not chosen under requirement B.
- D. Three upper level semester courses in *one* foreign literature.
- E. All concentrators are required to present a senior essay (*see* EULIT 99c). Honors will be awarded on the basis of cumulative excellence in the performance of the courses taken in the concentration and the senior essay.

It is strongly recommended that the concentrators (especially those who plan a graduate career in comparative literature) begin a second foreign language.

In addition to the courses listed below, students should consult offerings in *all* foreign literatures, English, philosophy and history of ideas, and theater arts.

- COLIT 7a Freshman Seminar: The European Tradition in the Humanities
- COLIT 98a Independent Study
- EULIT 99c Senior Seminar
- EULIT 100a Critical Approaches to European Literature
- EULIT 100b The Development of a Genre
- COLIT 116aR The Image of Man in European Renaissance Literature
- COLIT 120a Classicism and Rationalism
- *COLIT 125a Women in Literature
- COLIT 130b The Crisis of Conscience: 1715-1810
- COLIT 133br (THA 133bR) Aristocratic and Popular Drama in Japan and the West
- *COLIT 137a Modern Poetry in Terms of Modern Art
- *COLIT 145a European Romanticism
- *COLIT 145b Towards Modernism
- *COLIT 147b Politics as Reality and Utopia in Twentieth Century Literature
- COLIT 148bR The Lyric Since Valéry
- *COLIT 150aR The Bildungsroman
- COLIT 156b Early European Narrative Forms
- *COLIT 175a (ENG 175a) Dickens and Dostoevsky
- COLIT 175b The Psychological Novel
- COLIT 180a Versions of the "Absurd"
- *COLIT 187b Love in the Middle Ages
- COLIT 192aR The Faust Theme in European Literature
- *COLIT 194a Social Disillusionment in the Novel: 1848-1925
- *COLIT 199b Ethnopoetics

COMPUTER SCIENCE

Concentration Committee: Associate Professor Max Chrétien, *Chairman*; Professor Eugene P. Gross, Associate Professors Jacques Cohen, Lawrence E. Kirsch.

Requirements for Concentration

A. The following courses are required of all candidates: MATH 10 or 12, PHYS 31a, COSCI 15a,b, 24a, 27b, 32b, 33b. A student with sufficient background may be excused from taking MATH 10 or 12, COSCI 15a or 15b.

B. In addition to satisfying the concentration requirements a student will take two courses from the following lists A and B, with at least one course coming from List A.

List A: COSCI 28a, 34a, 35a, 45a,b, 97, 98, 99

List B: COSCI 22b, ECON 83a, 84b, ENG 191a,b, 196a, PHIL 115a, PSYCH 11a, 124b, MATH 20a, 30a, 35a,b, 36a,b.

C. Graduation with distinction in computer science requires one year of COSCI 99.

***COSCI 2aR (PHSCI 2aR)** Computers and Society

COSCI 13b (PHYS 13b) Problem Solving with Computers (BASIC)

COSCI 14a (PHYS 14a) Problem Solving with Computers (FORTRAN)

COSCI 15a (PHYS 15a) Introduction to Computers

COSCI 15b (PHYS 15b) Machine and Assembly Language

***COSCI 22b (PHYS 22b)** Computer Simulation and Feedback Systems

COSCI 24a Systems Programming

COSCI 27b General Introduction to Programming Languages

***COSCI 28a** Algorithms and Data Structures

COSCI 32b (PHYS 32b) Logic Circuits and Computer Design Laboratory

COSCI 33b (PHYS 33b) Numerical Analysis

COSCI 34a Computer Architecture

COSCI 35a Formal Languages and Syntactic Analysis

COSCI 45a Advanced Projects I

COSCI 45b Advanced Projects II

COSCI 97a Tutorial in Computer Science

COSCI 97b Tutorial in Computer Science

COSCI 98a, b Reading in Computer Science

COSCI 99 Senior Research

***COSCI 150 (MATH 150)** Mathematical Aspects of Information Science

CONTEMPORARY JEWISH STUDIES

Associate Professor Leon A. Jick, *Director*; Professors Leonard J. Fein, Arnold Gurin, Benjamin Halpern, Robert Perlman, Marshall Sklare; Associate Professor Bernard Reisman; Lecturers Mildred Guberman, Daniel J. Margolis.

See the Department of Near Eastern and Judaic Studies for the faculty in other studies and Hebrew language.

- CJS 21 (NEJS 21) (Y 1) Introductory Yiddish
- CJS 24 (NEJS 24) (Y 2) Intermediate Yiddish
- CJS 25 (NEJS 25) (Y 6) Introduction to Yiddish Literature
- *CJS 112b (NEJS 112b) Deutero — Isa'ale
- CJS 114a (NEJS 114a) The Book of Amos
- CJS 117b (NEJS 117b) Dead Sea Scrolls
- *CJS 118 (NEJS 118) The Book of Psalms
- CJS 119b (NEJS 119b) The Minor Prophets: Nahum, Habakkuk, Zephaniah
- CJS 123b (NEJS 123b) Classical Biblical Commentaries
- CJS 125a (NEJS 125a) Midrashic Literature: Mekhilta and 'Rabbi Yishmael
- CJS 131a (NEJS 131a) (PHIL 131a) History of Jewish Philosophy: From Antiquity to the Twelfth Century
- CJS 131b (NEJS 131b) (PHIL 131b) History of Jewish Philosophy: From the Twelfth to the Sixteenth Century
- CJS 140a (HIST 118a) (NEJS 140a) The Jews in Europe to 1492
- CJS 140b (HIST 118b) (NEJS 140b) The Jews in Europe from 1492 to 1750
- CJS 145b (NEJS 145b) History of the Modern Near East
- CJS 149b (POL 133b) Politics and Society in Contemporary Israel
- *CJS 150a (GER 150a) The Jewish Contribution to German Literature
- CJS 155b (AMSTD 155b) Health and Longevity in the U.S.
- CJS 160a (NEJS 160a) The American Jewish Experience: 1654-1885
- CJS 160b (NEJS 160b) The Emergence of the American Jewish Pattern: 1880 to Present
- CJS 161aR (NEJS 161aR) American Jewish Life and Institutions
- CJS 163aR (NEJS 163aR) The Sociology of the American Jew
- *CJS 164b (NEJS 164b) (SOC 118b) The Sociology of the American Jewish Community
- CJS 166a (NEJS 166a) Modern Jewish Intellectual History to 1870
- CJS 168a (NEJS 168a) Jewish Life and Institutions in Eastern Europe: 1880-1918
- *CJS 168b (NEJS 168b) History of the Jews in the Soviet Union
- *CJS 169a (NEJS 169a) The Destruction of European Jewry
- CJS 170b (NEJS 170b) Jewish Life and Institutions in Eastern Europe 1918-1939
- *CJS 171b (NEJS 171b) (Y 171b) Trends and Values in Yiddish Literature
- CJS 175a (AMSTD 169a) (SOC 169a) Religion and Ethnicity in American History
- CJS 182a (NEJS 182a) Introduction to Jewish Bibliography
- CJS 182aR (NEJS 182aR) Introduction to Jewish Bibliography

ECONOMICS

Professor Richard S. Weckstein, *Chairman*; Professors Joseph S. Berliner, Anne P. Carter, F. Trenery Dolbear, Jr. (*Advising Head*), Robert Evans, Jr., Louis Lefebvre; Associate Professors Leonard J. Hausman, Barney K. Schwalberg, Peter T. Van Aken (*Adjunct*); Assistant Professors Peter A. Petri, Thomas Williams; Lecturers Samuel Baker, Barry Friedman.

Requirements for Concentration

- A. All concentrators must complete satisfactorily each of the following:
1. ECON 2a and 8b
 2. ECON 80a and 82b
 3. ECON 83a
 4. For the class of '77, 8 semester courses in economics. Economics 98 may not be used to fill this requirement. For the classes of '78 and following 9 semester courses in economics. However, in addition to courses offered by the department one of the following may be offered as a ninth course: AAAS 193a, ANTHR 152bR, MATH 15b. This list will be changed in future years as course offerings change. But only one non-departmental course may be offered to satisfy this requirement.

ECON 2a, aR Introduction to Economics

ECON 6a Freshman Seminar: Technology, Resources and Welfare

ECON 8b Analysis of Economic Problems

ECON 8bR Analysis of Economic Problems

ECON 12a Managerial Economics and Accounting

ECON 24a The Soviet Economy

ECON 32b Comparative Economic Systems

ECON 69b An Economic Kaleidoscope

ECON 75a The Economics of Underdeveloped Countries

ECON 76b Labor Economics

ECON 80a, aR Price Theory

ECON 82b, bR National Income Analysis

ECON 83a, aR Introduction to Quantitative Economics

ECON 84bR Econometrics

ECON 86b Quantitative Models of the Economy

ECON 122a (AMSTD 127a) (HIST 155a) American Economic History

ECON 130b Mathematical Economics

ECON 135a Industrial Organization

ECON 136bR Introduction to Business

ECON 150b Social Economics

ECON 160bR International Trade

ECON 169aR Economics Through the Looking Glass

ECON 172b Monetary Theory

ECON 173b Inflation Seminar

ECON 179b The Legal Regulation of Economic Activity

EDUCATION

Peter D. Witt, *Director*

This program is intended to supplement the liberal arts curriculum for the student planning to teach in nursery, elementary, or secondary school. Education is not a field of concentration, but students who complete the program will have acquired at least twenty credits in the area. This is more than sufficient for Massachusetts certification in elementary and secondary teaching. (There is no certification at the pre-school level in this state.)

Students interested in elementary education teach in the second semester of their junior, which is preferable, or senior year. Teaching in the junior or senior high school is done invariably during the first semester of the senior year. Pre-school teaching, at the Lemberg Children's Center on campus, is done during the first semester of either the junior or senior year. Applications are due by the March 15 prior to the desired semester of teaching. Qualified candidates are accepted after interviews with both the director of the program and representatives of the cooperating schools. They then take, concurrently, ED 101b and ED 111bB, ED 102a and ED 110aA, or ED 103a and ED 112aA.

Other requirements of the Education Program include a course in child development (PSYCH 15 or 96) or educational psychology (through transfer of credit from a summer school or another university during the regular school year), and one other semester course concerned with the problems of education, such as: ED 107a or b, AMSTD 85b, AMSTD 180b, ECON 59bR, SOC 8a, SOC 152b.

ED 98a, b Individual Readings and Research in Education

ED 101b Elementary School Curriculum and Methods

ED 102a Seminar: Teaching in the Secondary School

ED 103a Seminar: Teaching Strategies for Early Childhood

ED 107a, b (AAAS 107a, b) Seminar: Teaching of Elementary Reading and Educational Materials Workshop

ED 110aA Practice Teaching, Secondary School

ED 111bB Practice Teaching, Elementary School

ED 112aA Practice Teaching, Preschool

ENGLISH AND AMERICAN LITERATURE

Professor John H. Smith, *Chairman*; Professors James V. Cunningham, Victor Harris, Milton Hindus, Benjamin B. Hoover (*Director of Graduate Studies*), Robert O. Preyer, Peter Swiggart; Associate Professors Allen R. Grossman, Ray S. Jackendoff, Karen Wilk Klein (*Director of Undergraduate Advising*), Alan L. Levitan, Richard J. Onorato, Susan Staves; Assistant Professors Michael Vannoy Adams (*Visiting*), Judith Ferster, Philip Fisher, Michael T. Gilmore, Michele Schurgin Lachman (*Visiting*), Alan Lelchuk, David Lynch (*Visiting*), Joan M. Maling, Thomas Wolf; Visiting Fannie Hurst Professors Richard Moore, Louis Simpson, Arturo Vivante; Visiting Lecturer Ivan Gold (1976-77).

Requirements for Concentration

Required of all candidates who declare an English concentration effective with the fall semester 1976-77; eight semester courses, which must include the following:

- (a) HUM 1a or 1b, which should be taken during the freshman year if possible;
- (b) a course in literary method, ENG 11a or 11aR, which must be taken during the student's first year as an English major;
- (c) **One** course in **each** of **five** different periods, chosen from the following six, as identified by the course-numbering system described below:
 - (1) Medieval British literature (roughly before 1500)
 - (2) Renaissance British literature (circa 1500-1660)
 - (3) Restoration/Eighteenth-Century British or American literature (circa 1660-1800)
 - (4) Nineteenth-Century British literature
 - (5) Nineteenth-Century American literature
 - (6) Twentieth-Century British or American literature
- (d) **One** of the following senior options:
 - (1) the senior essay, ENG 99a or b
 - (2) a senior tutorial, courses numbered 91 - 97 a or b
 - (3) senior thesis (ENG 98)

Only one ENG 90 (Independent Study) course per semester may be used to satisfy major requirements. Students planning to use ENG 90 courses to meet concentration requirements should see the English department advising head.

Except for courses in the 90 - 109 and the 190 - 199 ranges, English department courses are numbered systematically. The **final digit** for any course number identifies the subject area, as follows:

- 0 = Courses in a literary genre
- 1 = Courses in literary theory
- 2 = Medieval literature
- 3 = Renaissance literature
- 4 = Restoration/Eighteenth-Century British or American literature
- 5 = Nineteenth-Century British literature
- 6 = Nineteenth-Century American literature
- 7 = Twentieth-Century British or American literature
- 8 = Miscellaneous literary subjects
- 9 = Writing Courses

Honors: The department awards honors to its concentrators on the basis of honor work done in regular English courses, with special emphasis on the work done for the senior option. No special program or project is required.

There is an alternative concentration in English and linguistics. Required are nine courses: any four periods from the requirements listed above under (c), and any four linguistics courses. In addition, LING 99 must be taken. Each program should be worked out in consultation with the linguistics coordinator.

See also English and Classics.

- *ENG 2bR Epic and Romance
- ENG 3bR Seventeenth Century

- ENG 4a The Eighteenth Century
- *ENG 4b Eighteenth Century: Heroes and Villains in the Restoration
- ENG 5a Writers in the Victorian Age
- ENG 6a (AMSTD 8a) (HUM 4a) American Literature from 1832 to 1900
- ENG 7aR (AMSTD 9aR) (HUM 4b) American Literature from 1900 to 1965
- ENG 8a Freshman Seminar: Art and Nature
- *ENG 9a Advanced Writing Seminar
- *ENG 10a Classical English and American Lyrics
- ENG 10bR Poetry: A Basic Course
- ENG 11a, aR Introduction to Literary Method
- ENG 18a (HUM 1a) The Representation of Experience: A Basic Course of Literary Study
- ENG 18b (HUM 1b) The Representation of Experience: A Basic Course of Literary Study
- *ENG 20b (HUM 17b) Autobiography
- ENG 30aR (HUM 13aR) The Irrational in Literature
- ENG 33a (THA 124a) Shakespeare
- *ENG 33b Shakespeare
- ENG 47a American Poetry 1890-1950
- *ENG 47b Twentieth Century American Women Poets
- ENG 60a Science Fiction and the American Imagination
- ENG 67b Poetry in English at the Present Time
- *ENG 70a Sexual Society, Solitary Society: A Theory of the Novel in England
- ENG 75b The Nineteenth Century Novel
- ENG 77aR (HUM 61aR) Modern Novel
- ENG 80a Readings in the Short Novel
- ENG 87b Contemporary Fiction
- ENG 89aR Writing About Fiction
- ENG 90a, b Independent Study
- ENG 91b Senior Seminar - Lyric
- ENG 92b Senior Tutorial - Renaissance
- ENG 93a Senior Seminar: The Novels of Charles Dickens, George Eliot and Thomas Hardy
- ENG 98 Senior Thesis
- ENG 99a, b The Senior Essay
- ENG 109a, aR Directed Writing: Fiction
- ENG 119a Directed Writing: Poetry
- *ENG 119b Directed Writing: Poetry
- *ENG 120b Modes of the Short Poem
- ENG 122a Old English
- *ENG 122b Beowulf
- ENG 123aR Renaissance Poetry
- ENG 128b Music and Poetry
- *ENG 129a Directed Writing: Prose or Poetry
- ENG 129b Directed Writing: Prose or Poetry
- ENG 132b Chaucer

ENG 133aR (THA 140b) Advanced Shakespeare
ENG 135b Romantic Poetry
ENG 136a Whitman and His Archive
ENG 138a Studies in Literary Influence: Milton, Blake, Wordsworth, Keats
ENG 140b The Long Narrative Poem
***ENG 142b** The Ballad
***ENG 143a (THA 170aR)** Elizabethan and Jacobean Drama
***ENG 145b** Victorian Poetry and Poetics
***ENG 146a** Poetry and Revolution, 1780-1830
***ENG 147b** American Drama
ENG 148b (ENCLA 148b) Classical Background of English Literature: Myths
***ENG 150b** Problems of Poetry
***ENG 153a** Topics in Poetry and Religion
***ENG 153b** Milton
ENG 154b Augustan Satire
ENG 157a The poetry of W.B. Yeats and Robert Frost
***ENG 157b** Twentieth Century British Drama
***ENG 164b (THA 165b)** Restoration Drama
ENG 166aR Herman Melville
***ENG 166b** American Transcendentalism: Emerson to Dickinson
***ENG 167b** James Joyce
ENG 174b Eighteenth Century Novel
***ENG 175a (COLIT 178a)** Dickens and Dostoevsky
***ENG 175b** City and Psyche in Victorian Literature
***ENG 176a** Hawthorne and Melville
***ENG 177aR** The Experiment Called Modernism
ENG 177b Contemporary Women Writers
***ENG 181b** The Fiction of the Self
ENG 187a, b Modern Novel
***ENG 188b** Linguistics and Literature
ENG 191a, ar (LING 191a, ar) Introduction to Linguistics
ENG 191b (LING 191b) Linguistic Structure
ENG 192a (LING 192a) History of the English Language
ENG 193a (LING 193a) Problems in Phonology
ENG 193b (LING 193b) Introduction to Comparative and Historical Linguistics
ENG 194b (LING 194b) (PSYCH 194b) (UC 76d) Language and Mind
***ENG 195b (LING 195b) (PHIL 161b)** Linguistics and Logic
ENG 196a (LING 196a) (PHIL 196a) Semantics
***ENG 196b (LING 196b)** Syntactic Investigation in an Unfamiliar Language
***ENG 198b (LING 198b) (MUSIC 189b)** Linguistics and Music
ENG 199a, b (LING 199a, b) Directed Research in Linguistics
Freshman Writing Seminars 1a, aR
***Freshman Writing Seminar 2a** Advanced Writing Seminar
Basic Composition 1a

ENGLISH AND CLASSICS

Committee: Professors John H. Smith and Douglas J. Stewart.

Requirements for Concentration

- (a) Five semester-courses in English, including ENG 11a and including semester-courses in any 3 of the periods required for concentration in English and American literature.
- (b) Five semester-courses in Latin above the LATIN 1 level or five semester-courses in Greek above the GREEK 1 level.
- (c) A one-semester course of independent study (ENG 90a or b, LATIN 98a or b, GREEK 98a or b) leading to an essay to be read by members of the department of classics and the department of English and American literature. This course should normally be taken in the senior year.

It is recommended, though not required, that a student offering the combination of English and Latin also acquire an elementary knowledge of Greek and that a student offering the combination of English and Greek also acquire an elementary knowledge of Latin. A student's course of study in this field may be supplemented by appropriate courses in history, philosophy, art, and archaeology.

No course which is offered in fulfillment of any general degree requirement may be counted toward concentration in this field.

Honors in English and Classics is determined by the committee on the basis of distinguished work in completing the concentration.

ENCLA 148b (ENG 148b) Classical Background of English Literature: Myths

FINE ARTS

Associate Professor Robert W. Berger, *Chairman*; Professors Joachim E. Gaehde, Peter Grippe; Associate Professors Gerald S. Bernstein, Ludovico Borgo, Elaine P. Loeffler, Robert J. Maeda; Visiting Assistant Professor Robert J. Pero; Lecturer Carl I. Belz; Artist-in-Residence Paul L. Brown; Slide Librarian Eunice M. Cohen.

Requirements for Concentration

Concentration may be elected in either I Studio or II Art History and Criticism.

1. Studio concentrators are required to take:
 - a. FA 1, 103, and four additional semesters of studio electives.
 - b. Four semesters of art history consisting of:
 - One course in ancient or medieval art
 - One course in Oriental art
 - Two courses in Renaissance to modern art

II. History concentrators are required to take:

Class of 1981 and subsequent classes:

5 Group A courses

3 Group B courses

FA 197a or b. Concentrators are urged to take this course not later than their sophomore year.

1 Seminar (Group C)

1 Full year of studio work (normally FA 1)

Prospective graduate students in the history of art are advised to acquire reading skills in foreign languages which are demanded for admission to graduate schools.

All studio courses are full year courses beginning in the Fall.

FA 1 Elements of Design in Art

FA 20b, bR Introduction to the History of Art II: From the Renaissance to the Modern Age

FA 23b The Art of Antiquity

FA 31a (CLASS 4a) The Art of Greece and Rome I

FA 31b (CLASS 4b) The Art of Greece and Rome II: The Art of the Etruscans and the Romans

FA 42b Art of the Middle Ages II

FA 51a Art of the Early Renaissance in Italy

FA 54bR Renaissance Art in Northern Europe

FA 59b (MUSIC 59b) Music and Visual Arts in Italy *ca* 1580-1645

FA 98a, b Independent Study

FA 99 Senior Research

FA 102 Theory and Practice of Painting

FA 103 Life Drawing

FA 104 Advanced Life Drawing

FA 108 Advanced Painting

FA 111 Sculpture

FA 112 Advanced Sculpture

FA 115 Workshop in Printmaking

FA 116 Advanced Workshop in Printmaking

FA 120a Modern Architecture

FA 122a (AMSTD 122a) American Architecture and Painting

FA 141b (CLASS 102b) (HIDEA 102b) (HIST 102b) Pagan and Christian Thought and Art in the Late Roman Empire

FA 160aR Seventeenth Century Masters

FA 162b Seventeenth and Eighteenth Century European Architecture

FA 171b Painting and Sculpture of the Twentieth Century

FA 181bR Introduction to the Art of Japan

FA 182a Introduction to the Art of China I

FA 182b Introduction to the Art of China II

FA 191b Advanced Studies in Renaissance Art: Renaissance Portraiture

FA 192a Advanced Studies in Modern Art

FA 194b Advanced Studies in American Art
FA 196a Advanced Studies in Seventeenth and Eighteenth Century Art
FA 197a, b Methods and Approaches in the History of Art
Seminars in the Boston Museum of Fine Arts

FRENCH LANGUAGE AND LITERATURE

Faculty: See Romance and Comparative Literature

Requirements for Concentration

- A. EULIT 100a and b in the first year of concentration taken *in sequence*.
- B. Advanced language study: FREN 103a and 106b.
- C. Early literary movement studies: any *three* of the following courses: FREN 112a, 116b, 117a, 118b.
- D. To complete the requirement, concentrators may offer any *four* additional semester courses numbered above 100 in the French literature offerings.
- E. EULIT 99c. Senior Seminar for all Romance and comparative literature concentrators.
- F. Departmental honors will be awarded on the basis of cumulative excellence of performance in the courses taken in the concentration and in the essay written for the Senior Seminar.

Certain offerings in French literature, marked # below, are open to all students and are conducted in English with a dual reading list, each text being available in the original language and in English translation. Students wishing credit toward the French concentration for such courses will be required to do all the reading in the original. These courses do meet the distribution requirement in the humanities but do not meet the foreign literature requirement.

- FREN 1,aA Beginning and Elementary French
- FREN 1bB Intermediate and Advanced Intermediate French
- FREN 2a Accelerated First-Year French
- FREN 3a Intermediate French
- FREN 4b, bR Advanced Intermediate French
- FREN 5a, aR Reading French
- FREN 6a, aR Readings in French: An Introductory Course
- FREN 98a, b Independent Study
- EULIT 99c Senior Seminar
- EULIT 100a Critical Approaches to European Literature
- EULIT 100b The Development of a Genre
- FREN 103a French Conversation and Composition
- FREN 106b Advanced French Composition and Stylistics
- *FREN 112a The French Middle Ages
- FREN 116b The French Renaissance

- ***FREN 117aR** French Classicism
- FREN 118b** The French Enlightenment
- FREN 119a** French Romanticism
- FREN 125a** The Evolution of French Poetry from the Middle Ages to the French Revolution
- ***#FREN 138bR** The Great Age of French Fiction
- FREN 140bR** Twentieth Century French Theater
- ***FREN 149a** Twentieth Century French Fiction
- ***FREN 150b** Modern French Poetry
- FREN 160aR** From Anti-Rationalism to “Engagement” in Modern French Literature
- FREN 170b** The Moralism Tradition in French Literature
- ***#FREN 180b** Modern French Critical Thought

GENERAL SCIENCE

Committee: Associate Professor Gjerding Olsen, *Chairman and Advising Head*; Professor Richard S. Palais; Associate Professors Robert V. Lange, Morris Soodak, Thomas R. Tuttle; *Ex-Officio: Head, Science Council.*

The General Science program is designed for students desiring a diversified program in the sciences; for example, for students planning to teach science in secondary schools, to enter medicine or public health and their allied fields, or to undertake other programs requiring a general scientific background. Students who intend to do graduate work in a specific scientific field are advised to fulfill the undergraduate requirements for concentration in that field.

Requirements for Concentration

A. Required of all candidates: BIOL 21a, 31aR with 12a,b; CHEM 10a,b with 18a or 18aR *or* more advanced course with laboratory; MATH — any calculus course except MATH 5; PHYS 10 with 18c *or* 11 with 19c.

The candidate must present the minimum grade of C in all of the required courses above.

B. Elective Courses: With the approval of the program’s advising head, a candidate in the General Science program must also offer the equivalent of six semester courses from the offerings of the School of Science. Such courses must be selected from at least two and not more than four fields within the School of Science, so that advanced courses will be required of all candidates in this program. Distribution requirement courses such as in biological science, physical science, computer science, as well as courses in anthropology and psychology, may not be elected. Readings courses such as BIOL 98, PHYS 98, etc. cannot be used for concentration requirements.

Candidates in offering elective courses (except physical chemistry) are required to enroll in any laboratory accompanying the course; e.g. students offering CHEM 25a, b will also complete CHEM 29a, b.

C. Requirements for candidates for degrees with distinction: A student may petition the General Science Program Committee to devise an honors program which is in accordance with the special background of the individual. Such action must be completed before the close of the student's junior year.

D. No more than one D grade will be allowed in the elective semester courses offered toward concentration in this program.

GERMANIC AND SLAVIC LANGUAGES

Professor Harry Zohn, *Chairman*.

German: Professor Harry Zohn (*Advising Head*); Associate Professor Eberhard Frey; Assistant Professor Esther E. Rawidowicz (*Emerita*); Lecturers Frank Jacoby, Frances M. Scholz (Visiting).

Russian: Associate Professor Robert Szulkin (*Advising Head*); Associate Professor Margaret Dalton; Assistant Professors David A. Hanson (Listening Center Coordinator), Edythe C. Haber, (Visiting).

For course offerings and requirements for concentration, see German and Russian.

GERMAN LANGUAGE AND LITERATURE

Requirements for Concentration

- A. EULIT 100a and b in the first year of the concentration taken *in sequence*.
- B. Advanced language and literature study: GER 3a, 102aR, 106aR, 110aR, 120aR, 130bR, 140a; any two of the following: GER 160b, 170b, 180a.
- C. EULIT 99c. Senior Seminar for all Germanic and Slavic Language concentrators.
- D. Departmental honors will be awarded on the basis of cumulative excellence of performance in the courses taken in the concentration and written for the essay of the senior seminar.

GER 1 and 2 are full year courses and may not be dropped at midyear with credit.

Certain offerings in German literature, marked #, are open to all students and are conducted in English with a dual reading list, each text being available in the original language and in English translation. Students wishing credit toward the German concentration will be required to do all the reading in the original. These courses do meet the distribution requirement but cannot be taken in fulfillment of the foreign literature requirement.

GER 1; a, b Introductory German

GER 2a, b Intermediate German

GER 3aR Composition and Conversation

GER 5a Accelerated Second Year German

- GER 6a, aR Advanced Readings in German Culture
- GER 98a, b Independent Study
- EULIT 99c Senior Seminar
- EULIT 100a Critical Approaches to European Literature
- EULIT 100b The Development of a Genre
- *GER 102aR German Literature Before 1700
- *GER 106aR Advanced Exercises in German Composition and Literary Style
- GER 110aR Introduction to the Life and Works of Goethe
- *GER 120aR Enlightenment, Storm and Stress, Idealism: Lessing, Lenz and Schiller
Lectures and Readings in German
- GER 130b German Romanticism
- GER 140a German Literature in the Nineteenth Century
- *#GER 150a The Jewish Contribution to German Literature
- *GER 160b German Drama and Lyric Poetry from Naturalism to the Second World
War
- GER 170bR German Literature Since the "Year Zero" (1945)
- *#GER 180a Twentieth Century Prose: Mann, Kafka, Hesse

GREEK (See Classics)

HEBREW (See Near Eastern and Judaic Studies)

HISTORY

Professor Eugene C. Black, *Chairman*; Professors Geoffrey Barraclough, David S. Berkowitz, Rudolph Binion, John P. Demos, James E. Duffy, David H. Fischer, Morton Keller, Marvin Meyers, David J. Steinberg (*Adjunct*), Milton I. Vanger; Associate Professor John E. Schrecker; Assistant Professors Gregory L. Freeze (*Undergraduate Advisor*), James R. Green, Stephen J. Whitfield; Lecturer Ju-hsiang Ch'uan; Instructor John F. R. Coughlan.

Requirements for Concentration

All majors are expected to satisfactorily complete eight or more semester courses in history. Up to two history courses offered outside of the department (or, for transfer students and those taking a year's study abroad, up to four history courses, but must take at least one history course for each semester in residence at Brandeis) may be used to meet this requirement, with the approval of the student's department advising head.

The History Department offers its majors a choice of two basic modes of concentration: the **general program** and the **structured program**.

I. The General Program

Students selecting the **general program** are expected to meet the departmental course requirement as described above. Their work will be prepared in close consultation with a faculty adviser.

HIST 98a and b (Readings in History) may be taken by students on a subject of special interest that is not covered by the regular curriculum, or as a supplement to work on the senior honors thesis. The consent of the instructor is required.

HIST 99 (Senior Research) is required of **general program** candidates for degrees with distinction. It must be taken in addition to the eight-course major requirement.

II. The Structured Program

Students selecting the **structured program** are expected to meet the following requirements:

A. A **region** of concentration

1. The region normally will be one of the following:

- a. East Asia
- b. Latin America
- c. Russia and/or Eastern Europe
- d. The United States
- e. Western Europe
- f. In lieu of a region, a student may choose to concentrate on the twentieth century world.

2. Students are expected to take a year's survey course in their region of concentration, usually by the end of their sophomore year. The courses which will be used to fulfill this requirement will normally be selected from among the following:

- a. East Asia — HIST 80a and 80b
- b. Latin America — HIST 171a and 171b
- c. Russia and/or Eastern Europe — HIST 147a and 147b
- d. The United States — HIST 51a and 51b
- e. Western Europe — HIST 2a and 2b
- f. Twentieth Century World — HIST 136a and 136b

3. Students are expected also to take at least one additional semester of work in a region outside of their specialty.

B. A **topic** of concentration normally one of the following:

1. Intellectual and cultural history
2. Political or institutional history
3. Psychohistory
4. Social and economic history

Students will be expected to develop their topic of concentration through the selection of appropriate courses in close consultation with their advisers, and through the tutorial program (see below).

C. Advising

Students will be assigned an adviser in their sophomore year on the basis of their regional and topical concentrations. Advisers may be changed in the junior year in line with the student's more focused interest.

D. Tutorial Program

The aim of the tutorial program is to assist students in developing their regional and topical understanding. Tutorials will involve written work, and will count for concentration credit. Students normally will take one tutorial a year:

The general format of the tutorial program is as follows:

1. Tutorial I. HIST 96a or b
2. Tutorial II.
 - a. For those **not** writing a thesis: HIST 97a or b
 - b. For those writing a thesis: HIST 99 (in addition to the eight-course major requirement). HIST 97a or b is optional.

E. Oral Examination

1. For those **not** writing a senior thesis: Each student will be examined by his or her senior tutor and another faculty member. This discussion will focus on the student's written work in tutorial, in order to assess the student's understanding of his or her region and topic. This oral examination will be graded, and will constitute one third of the senior tutorial grade.

2. For those writing a senior thesis: There will be an oral examination upon completion of the thesis. It will deal essentially with the thesis, but will also assess the student's understanding of his or her region and topic.

HIST 2a Europe from Feudalism to Absolutism

HIST 2b Revolution and Modernization

***HIST 4a** Freshman Seminar in American History

***HIST 5a** Freshman Seminar: The English Revolution, 1640-1660

HIST 6a Freshman Seminar: American Imperialism in Southeast Asia

***HIST 7a** Freshman Seminar: Stalin and the Third Revolution

HIST 8a Freshman Seminar: Medieval Family

***HIST 51a** American Society: An Analytical History (1607-1860)

***HIST 51b** The History of Modern America

***HIST 68a (NEJS 68a)** History of the Jews from Ezra to the Spanish Expulsion

***HIST 68b (NEJS 68b)** History of the Jews from the Spanish Expulsion of 1492 to the Present

HIST 80a (UC 72g) Introduction to East Asian Civilization

HIST 80b East Asia to Modern Times

HIST 96a, b Junior Tutorial

HIST 97a, b Senior Tutorial

HIST 98a, b Readings in History

HIST 99 Senior Research

***HIST 101a (*CLASS 101a)** Greek History

***HIST 101b (*CLASS 101b)** Topics in Greek History: Alexander the Great

HIST 102a (CLASS 102a) (HIDEA 102a) Roman History

HIST 102b (CLASS 102b) (FA 141b) (HIDEA 102b) Topics in Roman History: Pagan and Christian Thought and Art in the Late Roman Empire

HIST 110a The Civilization of the Early Middle Ages

HIST 110b The Civilization of the High and Late Middle Ages

***HIST 111a** Byzantine Civilization

***HIST 112bR** The Crusades

- HIST 118a (NEJS 140a) (CJS 140a)** The Jews in Europe to 1492
- HIST 118b (NEJS 140b) (CJS 140b)** The Jews in Europe from 1492 to 1750
- HIST 120** Senior Seminar in Medieval Studies
- HIST 121a (HIDEA 130a)** Humanism in Europe
- *HIST 122a (HIDEA 186a)** Modern Despotism: Theory and Practice
- *HIST 122bR** New Direction in Political Thought in Early Modern Europe
- HIST 123aR (HIDEA 123aR)** Art and Culture in the Italian Renaissance
- *HIST 123b** The Reformation
- HIST 124a** Topics in English Constitutional History (Seminar)
- HIST 124b (HIDEA 136b)** Topics in Historical Jurisprudence: The English System of Law (Seminar)
- *HIST 125a** The Ancient Regime
- *HIST 126aR** Revolts and Revolutions in Seventeenth Century Europe
- HIST 126b** The Impact of Calvinism and Puritanism in Early Modern Europe
- *HIST 127b** The Society of the Old Regime
- *HIST 128a** The Development of the European City to 1800
- *HIST 128b** Topics in Urban History: The Renaissance in Florence
- HIST 129aR** An Introduction to European Social History
- *HIST 130a** The French Revolution
- HIST 131bR** Topics in Modern Social History
- HIST 132a (HIDEA 144a)** Intellectual History of Modern Europe, 1637-1857
- HIST 132b (HIDEA 144b)** Intellectual History of Modern Europe, 1857 to the Present
- *HIST 134a** Modern Europe: A Biographical Approach
- *HIST 135aR** European Socialism Since Babeuf
- HIST 136a** Europe in the Age of Nationalism and Imperialism, 1870-1920
- HIST 136b** The World Since 1929
- *HIST 137b** Imperialism
- *HIST 140b** The Tudor Revolution
- *HIST 141bR** Studies in British History — 1830 to the Present
- *HIST 142a** The Spanish Civil War and its Aftermath
- *HIST 144b** France 1914-1940
- HIST 146b** Topics in German History: Hitler, Germany and Europe
- HIST 147a** Rise of Imperial Russia
- HIST 147b** History of Russia Since 1861
- *HIST 148a** Revolutionary Russia, 1890-1917
- *HIST 149b** Culture and Thought in Imperial Russia, 1830-1880
- HIST 150a** Colonial America: People, Culture and Society
- *HIST 150b** The American Revolution
- *HIST 151aR** The Founding of the American Republic
- *HIST 152b** Problems of Democracy in Jacksonian America
- *HIST 153a** Civil War and Reconstruction
- HIST 154b** The History of Modern America
- HIST 155a (AMSTD 127a) (ECON 122a)** Economic History of the United States
- HIST 156** American Society: An Analytical History (1607 to the Present)
- HIST 157a** The American City: Boston as a Case Study

- *HIST 158a** Working Class History in the United States
- HIST 158bR** Race Relations in the United States
- HIST 159b** Family and Society in the American Past
- *HIST 160a** Adams and America
- *HIST 161a** The American Political Tradition: Origins to the Civil War
- *HIST 161bR** The American Polity
- HIST 162aR** The History of American Radicalism
- *HIST 162b** United States in the 1930's: A Capitalist Society in Crisis
- HIST 163a, b (POL 168a, b)** American Foreign Policy
- *HIST 164a (*POL 115a)** History of American Constitutional Law and Theory
- HIST 164b (POL 115b)** American Constitutional Law and Theory
- *HIST 165bR (*POL 116bR)** Civil Liberties in America
- *HIST 167b** Topics in American Legal History
- HIST 168a (AMSTD 104a)** Between the Past and Present: American Culture, 1890-1917
- HIST 168b (AMSTD 185b)** American Political and Social Thought Since World War II
- HIST 171a** Latin American History, Conquest to 1890
- HIST 171b** Latin American History, 1890 to Present
- *HIST 173a** The Family in Latin America
- HIST 173b** The World and Latin America
- *HIST 174aR** The Contemporary Novel and Latin American Reality
- *HIST 180a** Modern China
- HIST 181b** Seminar on Chinese Thought
- *HIST 182b** Modern Southeast Asian History
- *HIST 190a** Historiography
- HIST 190b** Research in American Social History
- HIST 191a** History and Psychology
- *HIST 191b** America
- *HIST 192a** Comparative Political Theory: China and Europe
- HIST 193b** The United States and Great Britain: Comparative Perspectives, 1830-1930
- HIST 194a** An Introduction to Historical Geography
- *HIST 196b** Introduction to Economic History
- *HIST 197a** Introduction to Historical Method: World War I
- HIST 197bR (CHIST 201a, b)** Introduction to Comparative History: The Family in Comparative Historical Perspective

HUMANITIES

- HUM 1a, b (ENG 18a, b)** The Representation of Experience: A Basic Course of Literary Study
- HUM 4a (AMSTD 8a) (ENG 6a)** American Literature from 1832 to 1900
- HUM 4b (AMSTD 9aR) (ENG 7aR)** American Literature from 1900 to 1965

- *HUM 6 (NEJS 96) Leading Ideas and Motifs in Biblical Literature
- *HUM 8bR (CLASS 8bR) (UC 75e) Greek and Roman Mythology
- HUM 13aR (ENG 30aR) The Irrational in Literature
- *HUM 17b (ENG 20b) Autobiography
- HUM 61aR (ENG 77aR) Modern Novel

Independent Concentrations

In choosing a concentration, a student may propose a program that combines academic work in several departments. The proposal requires the support of at least two departments and of one member of each supporting department who will agree to serve on the student's Concentration Committee. This program shall be limited to a total of about 30 students in the College.

Students who wish to develop a proposal for an independent concentration should consult the Office of the Dean of the College.

ITALIAN LANGUAGE AND LITERATURE

Faculty: See Romance and Comparative Literature

- ITAL 1 Beginning and Elementary Italian
- ITAL 5a Intermediate Italian
- ITAL 6b Readings in Italian: An Introductory Course
- ITAL 98a, b Independent Study
- ITAL 110bR Modern Italian Literature
- *#ITAL 140a Dante's *Divine Comedy*

LATIN (See Classics)

LATIN AMERICAN STUDIES

Committee: Professor Milton I. Vanger, *Chairman and Advising Head*; Professors George L. Cowgill, James E. Duffy, Donald Hindley, David Kaplan, Louis Lefebvre, Denah L. Lida, Robert A. Manners, Richard S. Weckstein; Associate Professors Robert C. Hunt, Benson Saler, Luis E. Yglesias; Assistant Professor Harry L. Rosser.

The Latin American studies concentration combines the insights of several disciplines with density of information on Latin America, offering both analytical breadth and personal interest. Study in Latin America for a term or a year is encouraged. Concentrators

have studied in universities in Mexico, Ecuador, Colombia, Peru, and Brazil, as well as Spain, and other possibilities are available. For those students whose interests cannot easily be fitted into the course requirements, or in the event a course is not offered, special readings courses or independent studies with members of the staff will be arranged. Courses, particularly in Portuguese and Latin American economic development, may be taken at neighboring institutions to Brandeis.

Students who are interested in Latin America, but do not concentrate in Latin American Studies, can enroll in the Program in Latin American Studies. The Program, open to students in any concentration at Brandeis, is a means for structuring their interest in Latin America. Each student in the Program will be assigned an adviser and participation and completion of the Program in Latin American Studies will be entered on permanent student records and transcripts.

Requirements for Concentration

A. LAS 100aR (POL 97b): Interdisciplinary Proseminar—The Phenomenon of Revolution in Latin America; HIST 171a: Latin American History, Conquest to 1890; HIST 171b: Latin American History 1890 to Present; POL 144a: Political Change in Latin America I; POL 144b: Political Change in Latin America II; SPAN 160a: The Latin American Novel in the Twentieth Century.

B. At least two semester courses from: ANTHR 124a: Civilization of Mesoamerica; ANTHR 144aR: Indians of South America; ANTHR 160b: An Anthropological Perspective on the Third World; ANTHR 165a: Modernization and Social Change; ECON 75a: The Economics of Underdeveloped Countries; HIST 173b: The World and Latin America; HIST 176a: Seminar in Latin American History; POL 13b: Introduction to the Politics of Non-Western States; SOC 120a and b: Sociology of Underdevelopment; SPAN 105b: Intermediate Conversation and Composition; SPAN 106b: Advanced Translation and Composition; SPAN 160aR: In Search of Latin America, the Essay; SPAN 161a: Masters of Modern Latin American Poetry; SPAN 162b: Studies in Argentine and Brazilian Literature; SPAN 163b: Latin American Literature of the Colonial Period and Nineteenth Century.

C. At least four semester courses in one discipline: anthropology, history, politics, Spanish. These may include courses taken under Requirement B, but not under Requirement A.

D. Senior Honors: Candidates for degrees with distinction must be approved by the Committee.

Requirements for the Program

1. Passage of Spanish 6 or reading competency examination in Spanish or Portuguese administered by Committee on Latin American Studies.
2. History 171a, Latin American History, Conquest to 1890, and History 171b, Latin American History 1890 to Present, or Politics 144a and b, Political Change in Latin America, or two semester courses on Latin American Literature.
3. Two additional semester courses from at least two departments: History 171a and b; Politics 144a and b; Latin American Literature; Anthropology 124a, Civilization of Mesoamerica, 144aR, Indians of South America.
4. Latin American Studies 100a/aR, Interdisciplinary Seminar: The Phenomenon of Revolution in Latin America.

- LAS 98a, b Independent Study
 LAS 99 Senior Research
 LAS 100aR (POL 97b) The Phenomenon of Revolution in Latin America
 AAAS 119a An Introduction to the Cultural History of the Caribbean
 AAAS 119b Race, Identity and Political Consciousness in the Caribbean
 *ANTHR 124a Civilizations of Mesoamerica
 ANTHR 144aR Indians of South America
 *ANTHR 160b An Anthropological Perspective in the Third World
 ECON 75a The Economics of Underdeveloped Countries
 HIST 171a Latin American History, Conquest to 1890
 HIST 171b Latin American History, 1890 to Present
 HIST 173b The World and Latin America
 POL 13b Introduction to the Politics of Non-Western States
 POL 144a Political Change in Latin America I
 POL 144b Political Change in Latin America II
 SOC 120a Sociology of Underdevelopment I
 SOC 120b Sociology of Underdevelopment II
 *SPAN 105b Intermediate Conversation and Composition
 SPAN 106b Studies in Advanced Spanish Conversation and Composition
 *SPAN 160aR In Search of Latin America: The Essay
 SPAN 160bR The Latin American Novel in the Twentieth Century
 SPAN 161a Masters of Modern Latin American Poetry
 *SPAN 162b Studies in Argentine and Brazilian Literature
 SPAN 163b Latin American Literature of the Colonial Period and Nineteenth Century

LEGAL STUDIES

Committee: Professor Morton Keller, *Chairman*; Professors David S. Berkowitz, Egon Bittner, Peter Woll; Associate Professors John T. Elliff, William M. Goldsmith; Assistant Professor Gila J. Hayim; Lecturer Charles H. Rogovin.

The Program in Legal Studies is designed to offer a limited number of Brandeis juniors and seniors the opportunity of studying the relationship of law to the social sciences and the humanities.

Each year the Committee on Legal Studies will select sophomore applicants for entry into the Program in their junior year. Juniors who wish to apply for entry in their senior year also will be considered, but priority will be given to sophomore applicants. ***Students accepted into the Program will keep their departmental concentrations.***

Participants in the Program will be expected to meet the following requirements:

- (1) Satisfactory completion of the Legal Process course (LEGAL 101a or 101b), preferably no later than the student's junior year.
- (2) Satisfactory completion of at least three additional courses listed in the Program Curriculum (see below), not including LEGAL 99. ***No more than two of the four required Legal Studies courses may be taken from one department.***

- (3) Satisfactory completion of a senior thesis in the field of legal studies, which may also satisfy the student's departmental honors requirement with the approval of the department.
- (4) Satisfactory completion of the Law and Society course (LEGAL 102a), normally in the fall semester of the student's senior year.

LEGAL 98a, b Readings in Legal Studies

LEGAL 99 Senior Research

LEGAL 101a (AMSTD 109a) The Legal Process: Law and Public Policy

LEGAL 102a Topics in Law and Society

AMSTD 194a Law and Social Welfare

ANTHR 120b The Anthropology of Law

ANTHR 156b Political Anthropology

***CLASS 162b** Justice and the City

***ECON 79b** The Legal Regulation of Economic Activity

HIST 124a Topics in English Constitutional History

HIST 124b Topics in Historical Jurisprudence: The English Systems of Law

***HIST 167bR** Topics in American Legal History

***NEJS 50a** Jewish Legal Concepts and Values

PHIL 142aR Philosophy of Law: Ethics and Justice

***POL 115a** History of American Constitutional Law and Theory

POL 115b American Constitutional Law and Theory

***POL 116bR** Civil Liberties in America

POL 117a Administrative Law

***POL 123b** Politics of Urban Criminal Justice

SOC 5a Introductory Criminology

SOC 163b Therapy and Punishment (Criminology II)

SOC 188b Sociology of Law

LINGUISTICS

Concentration Committee: Associate Professor Ray S. Jackendoff, *Chairman*; Associate Professor James Lackner; Assistant Professors David Hanson, Judith Irvine, Joan Maling.

The concentration in linguistics is designed to give students a foundation in the theory of language. It emphasizes the approach of transformational generative grammar, which attempts to describe what it is that one knows when one knows how to speak a language. In the last fifteen years, this approach to the study of language has had a profound influence on fields as diverse as philosophy, psychology, and anthropology, as well as on the linguist's traditional concerns with modern and classical languages and with linguistic universals.

Requirements for Concentration

Nine semester courses, four to be chosen from Group I, four from Group I or Group II, and one from Group III.

LING 191a and LING 191b will normally be taken first.

Candidates for Honors must complete Linguistics 99a or b.

Students may petition the concentration committee for changes in the above program.

Group I

LING 191a (ENG 191a) Introduction to Linguistics

LING 191b (ENG 191b) Linguistic Structure

LING 193a (ENG 193a) Problems in Phonology

LING 193b (ENG 193b) Introduction to Comparative and Historical Linguistics

LING 196a (ENG 196a) (PHIL 196a) Semantics

LING 196b (ENG 196b) Syntactic Investigations in an Unfamiliar Language

See also the concentrations in anthropology and linguistics, English and linguistics, and psychology and psycholinguistics.

LING 98 Independent Study

LING 99 Senior Research

*LING 188b (ENG 188b) Linguistics and Literature

LING 191a, aR (ENG 191a, aR) Introduction to Linguistics

LING 191b (ENG 191b) Linguistics Structure

LING 192a (ENG 192a) History of the English Language

LING 193a (ENG 193a) Problems in Phonology

LING 193b (ENG 193b) Introduction to Comparative and Historical Linguistics

LING 194b (PHIL 194b) (PSYCH 194b) (UC 76d) Language and Mind

*LING 195b (ENG 195b) (PHIL 161b) Linguistics and Logic

LING 196a (ENG 196a) (PHIL 196a) Semantics

*LING 196b (ENG 196b) Syntactic Investigations in an Unfamiliar Language

MATHEMATICS

Professor Maurice Auslander, *Chairman*; Professors Edgar H. Brown, Jr., David A. Buchsbaum, Morris Hirsch (Visiting), David I. Lieberman, Harold I. Levine, (*Advising Head*), Jerome P. Levine, Teruhisa Matsusaka, Alan L. Mayer, Paul H. Monsky, Richard S. Palais; Associate Professor David Eisenbud; Assistant Professors Ralph Greenberg, Ignacio Guerrero (Visiting), Kiyoshi Igusa, Hans P. Jakobsen, Paul O. Kirley, Charles Rockland, Gerald W. Schwarz; Research Associate, Idun Reiten.

Requirements for Concentration

1. MATH 21 or 22
2. MATH 30
3. MATH 45
4. MATH 35 or 40

5. One additional semester course in mathematics numbered 29 or higher. It is possible to substitute for this requirement certain approved courses in related areas such as computer science, physics, economics, etc. Such substitutions must be approved *in writing* by the undergraduate adviser.

A degree with distinction requires an additional two semesters of mathematics (numbered 29 or higher), but one of these may be in related areas (as above) subject to written approval of the undergraduate adviser. In addition, the student's program must include at least four semesters of *honors* courses, passed with a grade of B or higher. The *honors* courses are MATH 33, 34, 38, 40, 42 and all courses numbered 100 or higher, with the exception of 125, 150. Students intending to pursue graduate study are strongly urged to take the degree with distinction and include at least one 100 level course in their program.

Information for Freshmen

1. MATH 5 is a prerequisite for all mathematics courses numbered 10 or higher but a pre-calculus examination will be given during registration week for those who wish to by-pass this requirement. A good background in high school algebra, geometry and trigonometry are the only necessary elements for passing the pre-calculus examination.
2. Students who have taken the Advanced Placement Test and received a score of AB 4 or 5, or BC 3, 4 or 5 will receive a year's *advanced placement credit*. This credit will substitute for MATH 10 as a requirement or prerequisite for other programs or courses. A student who wished to take MATH 10 or 12, however, will lose this advanced placement credit upon successful completion of the course.
3. The courses accessible to freshmen without special preparation are MATH 10 or 12 (the two alternative calculus options), MATH 15 (linear algebra), and MATH 1 and 8. MATH 10, 12 and 15 will require MATH 5, or a passing grade in the precalculus examination, as a prerequisite (see [1]).

MATH 1a Introduction to Mathematical Concepts

MATH 5a, aR Precalculus Mathematics

MATH 8aR Introduction to Probability

MATH 10a, aR Differential Calculus

MATH 10b, bR Integral Calculus

MATH 12 Calculus I

MATH 15b Applied Linear Algebra

MATH 20a Calculus II

MATH 21 Calculus II

MATH 22 Calculus II

MATH 30 Introduction to Algebra

***MATH 32b** Differential Geometry

MATH 33a Topics in Algebra

MATH 34b Topology

MATH 35 Advanced Calculus

MATH 36a Probability and Statistics

MATH 37b Differential Equations

MATH 38b Number Theory

MATH 40 Introduction to Real Analysis
***MATH 42a** Algebraic Geometry
MATH 45a Introduction to Complex Analysis
MATH 98a, b Independent Study
MATH 101 Algebra I
MATH 111 Analysis I
MATH 121 Topology I
MATH 125b (*PHIL 121b) Foundations of Mathematics
***MATH 150 (COSCI 150)** Mathematical Aspects of Information Science

MEDIEVAL STUDIES PROGRAM

Committee: Associate Professor Karen Wilk Klein (*Program Director*) (English and American Literature); Professors Margaret H. Bent (Music), Paul H. Brainard (Music), Peter Diamandopoulos (Philosophy and History of Ideas), Joachim E. Gaehde (Fine Arts), William A. Johnson (Philosophy and History of Ideas), Nahum M. Sarna (Near Eastern and Judaic Studies), Douglas J. Stewart (Classics); Associate Professors Alan L. Levitan (English and American Literature), Robert Szulkin (Russian Language and Literature), Luis E. Yglesias (Spanish Language and Literature); Assistant Professors William E. Higgins (Classics), Richard H. Lansing (Italian Language and Literature).

An interdisciplinary program for students concentrating in existing departments in the University. The aim of the program is to allow students with an interest in the Middle Ages to acquire a wider knowledge of the culture of the period than is possible within existing concentrations. The transcript of participating students will show that they have completed the requirements of the program. Courses in the program are conducted both individually and jointly by members of the faculty of the Medieval Studies Program. Students may elect the Medieval Studies Program in addition to their concentrations.

Requirements

1. The core of the program is composed of HIST 110a, b (Medieval civilization) and the senior seminar in Medieval studies. These courses are required of those who elect the program.
2. Students in the program must complete the University language requirement by the middle of the junior year in one of the following: French, Italian, Spanish, German, Latin, Greek, Arabic, or Hebrew.
3. At least three other courses from the list selected in consultation with the Medieval studies adviser. (Normally, at least two of these courses should be outside the student's field of concentration).

CLASS 102b Art in the Late Roman Empire
COLIT 133bR Aristocratic and Popular Drama
COLIT 156b Early European Narratives
ENG 122a Old English
ENG 132b Chaucer
FA 42b Art of the Middle Ages II

FA 141b Pagan and Christian Thought
HIST 110a, b Medieval Civilization
HIST 120b Senior Seminar in Medieval Studies
MUSIC 122b Medieval and Renaissance Periods
NEJS 103a Introduction to Islamic Civilization and Institutions
NEJS 123b Classical Biblical Commentaries
NEJS 131a History of Jewish Philosophy from Antiquity to the Twelfth Century
NEJS 131b History of Jewish Philosophy from the Twelfth to the Sixteenth Century
NEJS 140a The Jews in Europe to 1492
PHIL 107b Medieval Philosophy

MEDITERRANEAN STUDIES

Faculty: Professor Louis V. Zābakar, *Chairman*; Cyrus H. Gordon (*Emeritus*);
 Assistant Professor Ian A. Todd; Instructor, Martha A. Morrison.

Nature of the Program

The program of studies aims at preparing the student for teaching and research in the history, languages, and archaeology of the ancient civilizations of the Nile valley, the Aegean and western Asia.

Requirements for Concentration

A. Required of all candidates: Four full-year courses within the department as approved by the advising head.

Undergraduates majoring in Mediterranean Studies can also pursue directed programs on an interdepartmental basis.

B. Candidates for distinction must, in addition, write an honors paper in the senior year (under MEDST 99).

MEDST 107b (NEJS 11b) History of Ancient Israel
MEDST 109b (ANTHR 109b) Archaeological Methods
MEDST 112 The Archaeology of the Aegean and the Near East
MEDST 115 (ANTHR 131) The Archaeology of Anatolia
MEDST 125 (NEJS 101) Beginning Classical Arabic
MEDST 126 (NEJS 102) Intermediate Arabic
MEDST 130 Elementary Akkadian
MEDST 138 (NEJS 106) Elementary Ugaritic
MEDST 140 Elementary Egyptian
MEDST 146a (ANTHR 146a) Environment and Archaeology
MEDST 170a (NEJS 103a) Introduction to Islamic Civilization and Institutions
MEDST 177b (ANTHR 177b) Archaeological Method and Theory: Seminar

MUSIC

Professor Robert L. Koff, *Chairman and Director of Performing Activities*; Professor Paul H. Brainard, *Co-Chairman and Director of Graduate Studies*; Professors Margaret H. Bent, Arthur Berger, Harold S. Shapero, Seymour J. Shifrin; Associate Professors Martin Boykan, Caldwell Titcomb (*Advising Head*); Assistant Professors Edward Cohen, Allan R. Keiler, James D. Olesen, Joshua Rifkin; Instructors David Hoose, Edward C. Nowacki; Performing Artists in Residence Tim Aarset, John Gibbons, Maynard Goldman, Fred Goldstein, Ruth S. Rubinow.

The program of concentration aims to provide an awareness of the systematic basis of music and its history, skill in the use of theoretical and compositional tools, and a close acquaintance with representative musical literature.

Before admission to concentration, candidates will normally pass MUSIC 61 during their freshman year, with a satisfactory grade, and must demonstrate competence at the keyboard, in sight reading, and in aural perception. Instruction under the basic piano program is offered during the sophomore and junior years for those who are deficient at the keyboard. The required proficiency must normally be demonstrated by the end of the junior year. No fee is charged for this instruction and no credit is granted.

Requirements for Concentration

A. The program of concentration will normally include the following: (1) three years of music theory (MUSIC 61, 162 163); (2) at least one year of music history (MUSIC 101; other music history courses may be substituted); (3) at least one semester of the senior tutorial (MUSIC 197a or b); and (4) as many additional courses in music as needed to complete the total of 12 semesters, excluding only courses numbered below 60 and MUSIC B, C, E, and M.

Alternate Programs: At any time prior to the completion of the junior year, the student may, in consultation with his or her adviser, submit an alternate proposal for the completion of his or her concentration. Such proposals will be considered by the department on the basis of their coherence and appropriateness to specific goals. They must in any case include the first two years of theory (or the equivalent). The balance of the program may be constituted as described under (4) above, but may also include a maximum of two semester courses in other departments; these must be justified in terms of the projected program of study.

B. All concentrators in music are also expected to participate regularly in the Chorus or Ensemble Workshop, and Music Colloquium.

C. Additional requirement for candidates for degrees with distinction: To be eligible for honors in music at graduation, candidates must demonstrate superior ability through their overall record, and a capacity for independent thought beyond the limits of their course program.

MUSIC 1a Introduction to Music

MUSIC 5a Fundamentals of Music—Part I

MUSIC 5b Fundamentals of Music—Part II

MUSIC 31a (AAAS 104a) Black Life Styles Through Music

MUSIC 31b (AAAS 105b) The Music of Black Americans

MUSIC 34aR The Literature of Chamber Music: Baroque and Classical

- *MUSIC 35aR The Literature of Chamber Music: Romantic and Modern
- MUSIC 37b The Symphony
- *MUSIC 38b The Opera
- *MUSIC 39b The Literature of Orchestral Accompanied Choral Music from the Baroque to the Present
- *MUSIC 43a Bach and His Sons
- MUSIC 45a Beethoven
- *MUSIC 48a Brahms and Mahler
- *MUSIC 59b (FA 59b) Music and Visual Arts in Italy, *ca.* 1580 to 1645
- MUSIC 61 Theory I
- MUSIC 97c Directed Independent Study
- MUSIC 98a, b Readings in Music History and Theory
- MUSIC 99 Senior Research
- MUSIC 101 History of Music
- MUSIC 122b Medieval and Renaissance Periods
- *MUSIC 123b Baroque and Pre-Classical Periods
- *MUSIC 125a Classical and Romantic Periods
- *MUSIC 128a Twentieth Century
- MUSIC 134c Studies in the Analysis and Performance of Chamber Music
- MUSIC 135c Studies in the Analysis and Performance of Orchestral and Choral Music
- MUSIC 162 Theory II
- MUSIC 163 Theory III
- MUSIC 165b Orchestration
- *MUSIC 171a (THA 171a) History of Music and Drama Criticism
- MUSIC 180bR (ANTHR 153bR) Ethnomusicology
- *MUSIC 189b (ENG 198b) Linguistics and Music Theory
- MUSIC 197a Tutorial in Music History and Literature
- MUSIC 197b Tutorial in Musical Analysis

NEAR EASTERN AND JUDAIC STUDIES

Professor Marvin Fox, *Chairman*; Professors Alexander Altmann (*Emeritus*), Naftali C. Brandwein, Nahum N. Glatzer (*Emeritus*), Moshe Goshen-Gottstein (*Visiting*), Benjamin Halpern, Alfred L. Ivry, Nahum M. Sarna, Marshall Sklare, Dwight W. Young; Associate Professors Michael Fishbane, Leon A. Jick, Avigdor Levy (*Visiting*), Benjamin C. I. Ravid, Bernard Reisman, Ernest Stock (Adjunct) (Hiatt Program); Assistant Professors Miriam Galston, Ariella D. Goldberg, Joshua Rothenberg; Lecturers Charles Cutter and Isaac Neustadt-Noy.

Requirements for Concentration

Each concentrator's plan of study is to be prepared with the student's adviser. The courses for the concentration should form a coherent pattern of study.

A. Fixed Requirements

- 1. HEB 6 (2 semesters).
- 2. One semester course in Biblical texts.
Only courses with a prerequisite of HEB 6 are acceptable.
- 3. One semester course in post-Biblical Jewish history.
- 4. One semester course in Jewish philosophy or Jewish thought.
- 5. One semester course in modern Hebrew literature.

A listing of the courses currently offered that will satisfy each of the fixed requirements is available in the department office.

The fixed requirements must be completed at Brandeis University. Transfer credit is *not* acceptable for these required courses. In the case of HEB 6, a student may satisfy the requirement either by completing the course or by gaining exemption through the departmental placement test.

B. Electives

Each concentrator is required to complete, in addition to the fixed concentration requirements, five semester elective courses in the department. At least one of these courses must be in the field of Jewish history.

C. Additional requirement for candidates for degrees with distinction: NEJS 99. Students proposing to seek honors should petition the department for approval of their plans.

D. NEJS concentrators who have a weak background in Judaic studies will find the various informal Hillel study groups of great value, though they carry no university credit.

Transfer Credits

A. By departmental rule a maximum of four semester course credits for courses taken at other universities may be accepted toward the elective part of the NEJS concentration requirements. Each course transferred from another university must have the approval of the department in order to be acceptable for credit toward the concentration requirements. This rule applies to courses completed at any other institution, whether in the United States or Israel. Credits from recognized universities in Israel are evaluated as follows:

1. Trimester System

No. Class Hours Per Week	No. of Trimesters	Credit Value
2 or 3	1	0
4	1	4
2	2	4
3 or 4	2	6
3 or 4	3	8

2. Semester System

Four credits for each three hours per week semester course, or for a two semester two hours per week course. No credit can be given for a semester course of less than three hours per week.

Credit is not granted for Ulpan courses. Students are free to take the Hebrew Placement Test.

B. Entering freshmen and entering transfer students are required to take the Hebrew Placement Test, if they plan to enroll in any course in Hebrew above the level of HEB 1. If they are exempted from HEB 6a, they will have fulfilled the university foreign literature requirement and will be entitled to two semester course credits for Hebrew. If they place below the level of HEB 6a, they will receive no course credit and will be placed in the appropriate class level.

NEJS 10aR Historical Geography of Israel

***NEJS 11b (MEDST 107b)** History of Ancient Israel

NEJS 21 (Y 1) (CJS 21) Introductory Yiddish

NEJS 24 (Y 2) Intermediate Yiddish

NEJS 25 (CJS 25) (Y 6) Introduction to Yiddish Literature

***NEJS 50a** Jewish Legal Concepts and Values

***NEJS 53b** Introduction to Talmudic Literature

***NEJS 64b** Modern Jewish Thought

NEJS 65b History of Zionism

***NEJS 68a (HIST 68a)** History of the Jews from Ezra to the Spanish Expulsion of 1492

***NEJS 68b (HIST 68b)** History of the Jews from the Spanish Expulsion of 1492 to the Present

***NEJS 90a** Readings in Bible (Book of Judges)

***NEJS 90b** Readings in Bible (Books of Ruth, Jonah, Esther)

NEJS 95a The Book of Exodus

***NEJS 95b** The Book of Jeremiah

***NEJS 96a, b (HUM 6)** Leading Ideas and Motifs in Biblical Literature

NEJS 98a, b Independent Study

NEJS 99a,b Senior Research

NEJS 101 (MEDST 125) Beginning Classical Arabic

NEJS 102 (MEDST 126) Intermediate Arabic

NEJS 103a (MEDST 170a) Introduction to Islamic Civilization and Institutions

NEJS 106 (MEDST 138) Elementary Ugaritic

***NEJS 108b** Comparative Grammar of Semitic Languages

NEJS 109a The Patriarchal Narratives in the Light of Ancient Near Eastern Documents

***NEJS 110b** Problems in Biblical History

NEJS 112a Biblical Hebrew

***NEJS 112b** Deutero-Isaiah

***NEJS 113a** Targum

NEJS 114a (CJS 114a) The Book of Amos

***NEJS 116b** The Problem of Evil in Jewish Philosophy

NEJS 117b (CJS 117b) Dead Sea Scrolls

***NEJS 118** Book of Psalms

NEJS 119b (CJS 119b) The Minor Prophets: Nahum, Habakkuk, Zephaniah

NEJS 123b (CJS 123b) Classical Biblical Commentaries

NEJS 125a (CJS 125a) Midrashic Literature: *Mekhilta d'Rabbi Yishmael*

- NEJS 131a (CJS 131a) (PHIL 131a)** History of Jewish Philosophy: From Antiquity to the Twelfth Century
- NEJS 131b (CJS 131b) (PHIL 131b)** History of Jewish Philosophy: From the Twelfth to the Sixteenth Century
- NEJS 139a** Modern Hebrew Literature: The Jew and his Realia
- NEJS 140a (CJS 140a) (HIST 118a)** The Jews in Europe to 1492
- NEJS 140b (CJS 140b) (HIST 118b)** The Jews in Europe from 1492 to 1750
- NEJS 145b (CJS 145b)** History of the Modern Near East
- NEJS 154a** History of the Hebrew Language: Introduction and Selected Documents
- NEJS 155b** Hebrew and Semitic Studies in Post-Renaissance Europe
- NEJS 160a (CJS 160a)** The American Jewish Experience, 1654-1885
- NEJS 160b (CJS 160b)** The Emergence of the American Jewish Pattern, 1880 to the Present
- NEJS 161aR (CJS 161aR) (SOC 118aR)** American Jewish Life and Institutions
- NEJS 163aR (CJS 163aR)** The Sociology of the American Jew
- *NEJS 164b (CJS 164b) (SOC 118b)** The Sociology of the American Jewish Community
- NEJS 166a (CJS 166a)** Modern Jewish Intellectual History to 1870
- NEJS 168a (CJS 168a)** Jewish Life and Institutions in Eastern Europe, 1880-1918
- *NEJS 168b (CJS 168b)** History of the Jews in the Soviet Union
- *NEJS 169a (CJS 169a)** The Destruction of European Jewry
- NEJS 170b (CJS 170b)** Jewish Life and Institutions in Eastern Europe, 1918-1939
- *NEJS 171b (CJS 171b) (Y 171b)** Trends and Values in Yiddish Literature
- *NEJS 173b (CJS 173b) (Y 173b)** Seminar in Yiddish Literature: Contemporary Poetry
- NEJS 182a,aR (CJS 182a,aR)** Introduction to Jewish Bibliography
- NEJS 187b** Biblical Images, Motifs and Ideas in Modern Hebrew Poetry
- HEB 1** Introductory Hebrew
- HEB 1aA** Intensive Introductory Hebrew
- HEB 2** Intermediate Hebrew
- HEB 2bB** Intensive Intermediate Hebrew
- HEB 3** Advanced Intermediate Hebrew
- HEB 6** Introduction to Hebrew Literature

PHILOSOPHY AND HISTORY OF IDEAS

Chairman and Advising Head to be announced; Professors Henry D. Aiken, Peter Diamandopoulos, William A. Johnson, George A. Kelly, Frederic T. Sommers, J. van Heijenoort, Morris Weitz; Associate Professors Robert S. Greenberg, Ray S. Jackendoff; Assistant Professor A. Mark Smith; Lecturers Carol Donovan, William C. Gay, David Wong, David B. Zilberman (Lecturer with rank of Assistant Professor).

Requirements for Concentration

A. Required of all candidates: eight semester courses in philosophy of which five must be in the following areas: (1) logic (one semester): PHIL 15a or 115a; (2) ethics, Social-Political Philosophy (one semester): PHIL 17a, 40b, 116b, 117b, 142a, 145b, 151a; (3) history of philosophy (three semesters) consisting of (a) Ancient and Medieval (one semester): PHIL 11a, 105a, 105b, 107b; (b) Modern (one semester): PHIL 11b, 143a, 143b, 167a; (c) recent contemporary (one semester): PHIL 116b, 117b, 132a, 133a, 133b, 134a, 147a, 150a. Three semester courses will be electives; one of these must be systematic-analytic in character (e.g., PHIL 117b, 119a, 133b, 140b, 152b, 156b, 157a, 158a). PHIL 1a, 1b or 2b may count for one semester of the required eight.

B. Additional requirement for candidates for degrees with distinction: PHIL 99.

C. It is advised, but not required, that prospective concentrators take PHIL 1 in their freshman or sophomore year.

PHIL 1a Introduction to Philosophy: Problems of Philosophy

PHIL 1b Introduction to Philosophy: Problems of Philosophy

PHIL 2b Problems of Philosophy: A Non-Historical Approach

PHIL 10a Philosophical Bases of Western Culture

PHIL 11a History of Ancient Philosophy

PHIL 11b History of Modern Philosophy

PHIL 13a Philosophy and the Arts

PHIL 14b Philosophy in Literature

PHIL 15a Logic

PHIL 17a Introduction to Ethics

***PHIL 20b (UC 73f)** On Being a Person: Problems and Prospects

PHIL 33aR Contemporary Philosophy

PHIL 52a Philosophy of Religion

PHIL 56a Freshman Seminar: Materialism and the Mental

PHIL 60b (PHSCI 3b) (UC 73e) Twentieth Century Physics and Its Philosophical Implications

PHIL 75b (UC 75d) Science and Ethics

PHIL 103b Seminar in Rationalism: Descartes

PHIL 105a Plato

PHIL 105b Aristotle

PHIL 107b Medieval Philosophy

PHIL 110b Introduction to Marxism

PHIL 115a Intermediate Logic

PHIL 116b History of Modern Ethical Theory

PHIL 117b Ethical Theory in the Twentieth Century
PHIL 118b Modern Phenomenology
PHIL 119aR Theory of Knowledge
***PHIL 121b (MATH 125b)** Foundations of Mathematics
***PHIL 124b** Concepts: Their History and Variety
PHIL 128bR Oriental Philosophies
***PHIL 130a** Philosophy of Logic
PHIL 131a (NEJS 131a) History of Jewish Philosophy: From Antiquity to the Twelfth Century
PHIL 131b (NEJS 131b) History of Jewish Philosophy: Sixteenth Century
PHIL 132aR 19th Century Philosophy
PHIL 133b Contemporary Analytic Philosophy
***PHIL 134aR** Continental Existentialism
PHIL 140b Philosophy of Science
PHIL 142aR Philosophy of Law: Ethics and Justice
PHIL 143a Continental Rationalism
PHIL 143bR British Empiricism
PHIL 145bR Hegel
PHIL 147a American Pragmatism
PHIL 151a Social and Political Philosophy
PHIL 156b Philosophy of Mind
PHIL 157a Philosophy of Language
PHIL 158a Metaphysics
PHIL 160b Linguistic Philosophy
***PHIL 161b (ENG 195b) (LING 195b)** Linguistics and Logic
PHIL 167aR Kant
PHIL 194b (LING 194b) (UC 76d) (PSYCH 194b) Language and Mind
PHIL 196a Semantics
HIDEA 100b Introduction to History of Ideas: The Social Disciplines
HIDEA 102a (CLASS 102a) (HIST 102a) Roman History
HIDEA 102b (CLASS 102b) (HIST 102b) (FA 141b) Pagan and Christian Thought and Art in the Late Roman Empire
HIDEA 123b (HIST 123b) Art and Culture in the Italian Renaissance
***HIDEA 125a** Major Figures of the Christian Tradition
***HIDEA 125b** Modern Religious Thought
***HIDEA 126bR** Religion and Its Conceptional Settings
HIDEA 130a (HIST 121a) Humanism in Europe
HIDEA 136b (HIST 124b) Topics in Historical Jurisprudence: The English System of Law (Seminar)
HIDEA 137aR (PHYS 137aR) Science in the Second Half of the Nineteenth Century
HIDEA 144a (HIST 132a) The Intellectual History of Europe, 1890-1930
HIDEA 144b (HIST 132b) Intellectual History of Contemporary Europe, 1930-1970
HIDEA 163a (POL 195a) Communist Political Thought—Marx to Mao
HIDEA 182bR (POL 182b) Political Thought from Machiavelli to Marx
HIDEA 186a (HIST 122a) Modern Despotism: Theory and Practice

PHOTOBIOLOGY (See Biology)

PHYSICAL EDUCATION

Professor Nicholas Rodis, *Chairman*; Associate Professors Lisel K. Judge, Norman E. Levine; Assistant Professor Robert Brannum; Lecturers Thomas P. O'Connell, Brenda Wiechmann; Instructors Michael W. Coven, Paul R. Enfanto, Judith A. Houde, Mary E. Sullivan.

- PE 1a, aR Swimming
- PE 2a, aR Tennis
- PE 3a, aR Body Conditioning
- PE 4a, aR Advanced Lifesaving
- PE 5a, aR Figure Control
- PE 6 Water Safety Instruction
- PE 7a, aR Modern Dance
- PE 8a, aR Fencing
- PE 9a, aR Karate
- PE 10a, aR Figure Skating
- PE 11a, aR Volleyball-Basketball
- PE 12a, aR Soccer-Volleyball
- PE 13a Touch Football-Basketball
- PE 13aR Basketball-Softball
- PE 14a, aR Ballroom Dance
- PE 15a, aR Golf-Squash
- PE 16a, aR Tennis-Volleyball
- PE 17a, aR First Aid
- PE 18a, aR Water Safety Instructor's Retraining Course
- PE 19a, aR Yoga
- PE 20a, aR Tennis-Basketball
- PE 21a, aR Scuba
- PE 22aR Intermediate Fencing

PHYSICAL SCIENCE (See Physics)

PHYSICS

Professor Stanley Deser, *Chairman*; Professors Stephan Berko, Donald L.D. Caspar (Rosenstiel Center), Jack S. Goldstein, Marcus T. Grisaru, Eugene P. Gross, Peter Heller, Edgar Lipworth, Alfred G. Redfield (Rosenstiel Center), Howard J. Schnitzer, Silvan S. Schweber; Associate Professors Max Chr tien, Jacques Cohen, David J. DeRosier (Rosenstiel Center), Lawrence E. Kirsch (*Director*, Feldberg Computer Center), Robert V. Lange, Hugh N. Pendleton III (*Advising Head*); Assistant Professors James R. Bensinger, Karl F. Canter, Robert A. Fox (Visiting Assistant Professor, fall semester), William S. Gornall, Lawrence M. Schwartz, Robert F. Stein, Robert P. Tinkelman, John F. C. Wardle, Hermann F. Wellenstein; Instructors John J. Mader, Brian O. Clark; Lecturer Henri E. Mitler (Visiting).

Requirements for Concentration

A. The minimum requirement for concentration in physics is 11 semester courses in physics and two semester courses in mathematics. Of the 11 semester courses in physics, at least three must be semester courses in laboratory work, and at least two must be at the level of PHYS 30 or above. Mathematics and physics courses numbered under 10 may not be used to fulfill the physics concentration requirement.

B. Students not intending to pursue graduate study in physics may be permitted to substitute advanced courses in other fields to meet physics concentration requirements, subject to the approval of the department. Note that some computer science courses are also physics courses and may be used to meet physics concentration requirements. Students with a concentration in physics and an interest in biophysics may want to take courses in biophysics, biology, biochemistry or chemistry. With departmental approval, they may use such courses to satisfy part of their physics concentration requirements.

C. Students intending to pursue graduate work in physics will normally take PHYS 30, 31, 39, 40 and 50, or graduate physics courses dealing with the same subjects at a more advanced level (selecting from PHYS 100, 101, 102, 103, 104, 109, and 110).

D. Students who have attained a grade of 3, 4, or 5 on the Advanced Placement Examination may obtain credit for PHYS 10.

E. Additional requirement for candidates for degrees with distinction: PHYS 99 or two graduate semester courses (with honor grades).

F. Students may be admitted to a special four-year M.A. program upon recommendation of the department and the Graduate School.

PHSCI 1a The Concepts of Physics

PHSCI 1b Waves and Fields

***PHSCI 2aR (COSCI 2aR)** Computers and Society

PHSCI 2b, bR Introductory Astronomy I

***PHSCI 3b (PHIL 60b) (UC 73d)** Twentieth Century Physics and Its Philosophical Implications

PHYS 56 Freshman Seminar: Physics as Science and Metaphor

PHYS 10 Physics for the Life Sciences

PHYS 11 Basic Physics I

***PHYS 12a** Elementary Astronomy II

PHYS 13b (COSCI 13b) Problem Solving with Computers (BASIC)

PHYS 14a (COSCI 14a) Problem Solving with Computers (FORTRAN)

PHYS 15a (COSCI 15a) Introduction to Computers

PHYS 15b (COSCI 15b) Machine and Assembly Language

PHYS 16b (PSYCH 116b) Light, Color and Vision

PHYS 18c Introductory Laboratory

PHYS 19c Physics Laboratory I

PHYS 20a Basic Physics II

PHYS 20b Basic Physics III

***PHYS 22b (COSCI 22b)** Computer Simulation and Feedback Systems

***PHYS 25b** Astrophysics

***PHYS 26b** Introductory Thermodynamics and Biophysics

PHYS 29a Physics Laboratory II

PHYS 29b Physics Laboratory III

PHYS 30a Atomic Physics
PHYS 30b Nuclear Physics
PHYS 31a Methods of Mathematical Physics I
PHYS 31b Methods of Mathematical Physics II
PHYS 32b (COSCI 32b) Logic Circuits and Computer Design Laboratory
PHYS 33b (COSCI 33b) Numerical Analysis
PHYS 37a (BPHYS 101a) Biophysical Optics I
PHYS 37b (BPHYS 101b) Biophysical Optics II
PHYS 39a Physics Laboratory IV
PHYS 39b Physics Laboratory V
PHYS 40a Properties of Matter I
PHYS 40b Properties of Matter II
***PHYS 50a** Theoretical Physics I
***PHYS 50b** Theoretical Physics II
PHYS 97a, b Tutorial in Physics
PHYS 98a, b Reading in Physics
PHYS 99 Senior Research
***PHYS 100a** Particle Mechanics
***PHYS 100b** Continuum Mechanics
PHYS 101a Electromagnetic Theory I
PHYS 101b Electromagnetic Theory II
PHYS 102a Quantum Mechanics I
PHYS 102b Quantum Mechanics II
PHYS 103aR Statistical Physics
***PHYS 103b** Atomic and Nuclear Structure
PHYS 104a Solid State Physics I
***PHYS 104b** Solid State Physics II
PHYS 107b Particle Physics
PHYS 108b Introduction to Astrophysics
PHYS 109a Advanced Laboratory I
PHYS 109b Advanced Laboratory II
PHYS 110aR Mathematical Physics
***PHYS 128a** Electronics for Scientists
PHYS 137aR (HIDEA 109a) Science in the Second Half of the Nineteenth Century
PHYS 152b (BPHYS 152b) Biological Assembly

POLITICS

Professor Ruth S. Morgenthau, *Chairman*; Professors Marver H. Bernstein, Robert H. Binstock, Donald Hindley, George A. Kelly, Roy C. Macridis, I. Milton Sacks, Peter Woll; Visiting Professor Peter Bachrach; Associate Professors Robert J. Art, John T. Elliff, Martin A. Levin; Visiting Associate Professor Thomas E. Cronin; Assistant Professors Roy F. Grow (*Undergraduate Adviser*) Mark L. Hulliung, Peter B. Natchez, Susan M. Okin, Bruce I. Oppenheimer, Steven J. Rosen, Ralph Thaxton; Instructor Roger Z. George.

Requirements for Concentration

A. Required of all candidates: POL 1a or 1aR.

B. Concentrators are required to complete at least ten semester courses in politics. POL 1a, 1aR will count towards this requirement. POL 98 (Independent Study) will count toward this requirement except for students concurrently taking POL 99 (Honors). At least one course must be taken from each of the following fields: American government, comparative government, international relations and political theory.

C. Candidates for departmental honors must complete POL 99.

D. With the consent of the departments' undergraduate adviser, students may receive departmental course credits for up to two courses taken in related departments.

E. With the permission of the instructor, upperclassmen may enroll in politics graduate courses.

Politics

All 100-level courses are open to graduate students.

The list of 200-level-and-above courses for graduate students will be available at the Politics Department office. Undergraduates may take such courses with the special permission of the instructor.

POL 1a, aR The Western Political Tradition

POL 11b Introduction to European Government

POL 12bR The Dynamics of Modern Government

POL 13b Introduction to the Politics of Non-Western States

POL 14b, bR Introduction to American Government

POL 15a, aR Introduction to International Politics

***POL 16a** American Politics in Nation and City

POL 97a, Sec. 1 Presidential Elections: Past and Present

POL 97bR The Politics and Policy Processes of Aging

POL 97b, Sec. 1 Foreign Policy and American Elections

POL 97b, Sec. 2 (LAS 100aR) The Phenomenon of Revolution in Latin America

POL 98a, b Independent Study

POL 99 Senior Research

POL 101aR Parties, Pressure Groups and Public Opinion

POL 105b Reform Movements and Reform Politics

POL 107b The Politics of Public Policy

POL 111a The American Congress

POL 113b The American Presidency

***POL 114a** The Legal Process: Law and Public Policy

***POL 115a (HIST 164a)** History of American Constitutional Law and Theory

POL 115b (HIST 164b) American Constitutional Law and Theory

***POL 116bR (*HIST 165bR)** Civil Liberties in America

POL 117a Administrative Law

POL 118a Policy Formation (Seminar)

POL 119aR Power in the Urban Context

POL 120aR Politics of Urban Areas

***POL 121a** The Politics of Poverty, Class and Race in Urban Areas

***POL 123b** The Politics of Urban Criminal Justice

POL 124a Labor and Politics in the United States

Comparative Politics

- POL 125a (AAAS 125a) Political Development in the Black Community
- POL 128a Contemporary Peasant Revolution
- POL 130b The Political and Social Institutions of the Soviet Union
- POL H131a (SOC H131a) Social and Political Institutions of Israel
- POL 140aR (AAAS 160aR) The Politics of Africa
- POL 141aR (AAAS 161aR) National and International Politics of South Africa
- POL 144a Political Change in Latin America: I
- *POL 144b Political Change in Latin America: II
- POL 147a Government and Politics of China
- POL 147b Government and Politics of Japan
- POL 150a Government and Politics: Southeast Asia
- *POL 155b Seminar: Political Development and Modernization
- POL 156b European Political Systems
- POL 164a Comparative Foreign Policy



International Politics

- POL 168a (HIST 163a) American Foreign Policy
- POL 168b (HIST 163b) American Foreign Policy
- POL 171b Multi-National Enterprises and National Power
- *POL 175a International Relations in the Middle East
- POL 176b International Organizations
- *POL 177 China and the Soviet Union in World Affairs
- POL 178b International Politics in the Pacific Area
- POL H179a Israel in Its Middle East Setting

Political Theory and Methods

- POL 182a Political Thought: Plato to Machiavelli
- POL 182b (HIDEA 182bR) Political Thought from Machiavelli to Marx
- POL 190a Democratic Political Thought
- POL 193a Theories of Political Sociology
- POL 194aR Empirical Political Theory
- POL 195a (HIDEA 163a) Communist Political Thought — Marx to Mao
- POL 196b (UC 75f) Contemporary Political Theory
- POL 198b Women in the History of Political Thought

PSYCHOLOGY

Associate Professor James R. Lackner, *Chairman*; Professors Eugenia Hanfmann (*Emerita*), Ricardo B. Morant, Zick Rubin, Marianne L. Simmel; Associate Professors Maurice Hershenson, David Ingle (Visiting), Arthur Wingfield (*Director of Graduate Studies*), Jerome Wodinsky; Assistant Professors Lawrence E. Arend, Jr., Susan Goldberg, Donald N. Kaiser, Raymond Knight, Leslie McArthur.

Requirements for Concentration

A. All concentrators in psychology will take eight semesters (courses) in the Psychology Department including PSYCH 5 and two courses from the following list: PSYCH 116, 118, 119, 120, 124, 126, 127, 128, 136, 140, 141, 143, 158, 159, 160, 173, 177.

B. Candidates for degrees with distinction must take PSYCH 99.

C. Students who plan to do graduate work in psychology should take PSYCH 11, 150, and at least one of the following: 116, 120, 126.

D. A grade of C— or better is required in PSYCH 1 and 2 and other prerequisite courses. A grade of C— or better is required in all courses offered toward a concentration in psychology. Pass/fail courses may not be offered toward the concentration.

Psychology and Psycholinguistics

An alternate concentration in Psychology and Psycholinguistics will consist of eleven courses drawn from psychology and from the Linguistics Program.

The psychology requirement will be satisfied by PSYCH 1, 2, 11, 120, 124, 143, 173, and 99. It is suggested that at least two of the following also be taken: PSYCH 15, 118, 119, 140, 144, 150 or 159.

The linguistics requirement will be satisfied by either ENG 191a or 191b, plus any three of the following: ENG 196a, 196b, 193a or 197a.

Admission and structuring of this alternative concentration is subject to the approval of the Psycholinguistics and the Linguistics Program Coordinators.

Psychology and Animal Behavior

Students majoring in psychology with an interest in animal behavior may prepare themselves with a coordinated set of 16 courses drawn from psychology, anthropology, and biology. (Anthropology concentrators have a parallel anthropology and behavioral studies option open).

The student would take the following courses: in biology, BIOL 10a, b and 12a, b; in anthropology, ANTHR 3a, 111a, 112a and 212a; in psychology, PSYCH 1a or aR, 2a or aR, 11a or aR, 119a, and four of the following: 118b; 120aR, Section 2; 141a; 177a; and 127a, (98 or 99 may replace *one* of these courses). Directed field or laboratory research in behavior will be available in connection with PSYCH 99.

PSYCH 3a Freshman Seminar: Nature, Art and Illusion

PSYCH 5a, aR Introduction to Psychology

PSYCH 11a Statistics and Quantitative Methods

PSYCH 12a Statistics and Quantitative Methods

PSYCH 15a Child Development

PSYCH 98a, b Readings in Psychological Literature

PSYCH 99 Senior Research

PSYCH 116b (PHYS 166) Light, Color and Vision

PSYCH 117bR Social Psychology

PSYCH 118b Physiological Psychology

PSYCH 119a Comparative Psychology

*PSYCH 120a Experimental Psychology

PSYCH 124aR Human Memory

PSYCH 125b Recent Advances in Animal Behavior

PSYCH 126a, aR Research Methods in Personality and Social Psychology

PSYCH 127a Temporal Patterning of Behavior

PSYCH 128aR Sensory Processes

PSYCH 134a Abnormal Psychology

PSYCH 138a Seminar: Conceptions of Social Relationships

PSYCH 140a Learning and Behavior

PSYCH 141b Biological Bases of Motivation

PSYCH 143b Cognitive Processes

*PSYCH 150a Introduction to Psychological Theory

PSYCH 159a Perception
PSYCH 159aR Seminar in Perception
PSYCH 161a Mental Health in the United States — Field Work
PSYCH 171b Schools of Psychotherapy
PSYCH 177a Neural Basis of Behavior
PSYCH 180a Seminar: Writing in the Behavioral Sciences
PSYCH 194b (LING 194b) (PHIL 194b) (UC 76d) Language and Mind

ROMANCE AND COMPARATIVE LITERATURE

Denah L. Lida, *Chairwoman*.

Comparative Literature

Associate Professor Luis E. Yglesias, *Chairperson* and *Student Adviser*; Professor Edward Engelberg.

French

Professor Murray Sachs (*Student Adviser*); Associate Professors Stephen J. Gendzier, Erica Harth; Assistant Professors Bradley M. Berke, William J. Cloonan, Donald L. Maddox, Mordeca J. Pollock, Peter Varkonyi; Lecturer Christian H. Susini (Visiting).

Italian

Assistant Professor Richard H. Lansing.

Spanish

Professors James E. Duffy, Denah L. Lida (*Student Adviser*); Associate Professors Andrée M. Collard, Luis E. Yglesias; Assistant Professor Harry L. Rosser; Visiting Assistant Professor Judith Rauchwarger; Lecturer Kathleen M. Sayers.

For course offerings and requirements for concentration, see Comparative Literature, French, Italian and Spanish.

RUSSIAN LANGUAGE AND LITERATURE

Requirements for Concentration

- A. EULIT 100a and b in the first year of the concentration taken *in sequence*.
- B. Advanced language and literature study: RUS 3a, 106b, 112b *or* 117a, 125a, 130a, 149b, 161b and any two of seminars 150b, 153a, and 156a.

C. EULIT 99c. Senior Seminar for all Germanic and Slavic Language concentrators.
D. Departmental honors will be awarded on the basis of cumulative excellence of performance in the courses taken in the concentration and written for the essay of the Senior Seminar.

RUS 1 and 2 are full year courses and may not be dropped with credit at midyear.

Certain offerings in Russian literature, marked # below, are open to all students and are conducted in English. Students wishing credit toward the Russian concentration will be required to do all the reading in the original. These courses do meet the distribution requirement but cannot be taken in fulfillment of the foreign literature requirement.

RUS 1 Introductory Russian

RUS 2 Intermediate Russian

RUS 3a Conversation and Composition

RUS 6a Advanced Readings in Russian Culture

RUS 7a Freshman Seminar: Nineteenth Century Russian Literature: The Writer and Society

RUS 98a, b Independent Study

EULIT 99c Senior Seminar

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre

RUS 106b Advanced Conversation, Composition and Reading

***RUS 112b** Theory of Language (Proto-Slavic)

RUS 117a Pre-Nineteenth Century Russian Literature

***RUS 125a** Slavic Civilization

#RUS 130a Nineteenth Century Russian Literature

***RUS 145b** Nabokov

#RUS 149b Twentieth Century Russian Literature

RUS 150bR Russian Prose — Undergraduate Seminar

RUS 153aR Russian Poetry — Undergraduate Seminar

***RUS 156a** Russian Drama — Undergraduate Seminar

RUS 161b The Structure of Modern Russian

SOCIOLOGY

Professor Egon Bittner, *Chairman*; Professors Everett C. Hughes (Emeritus), Morris S. Schwartz, Maurice R. Stein, Kurt H. Wolff, Irving K. Zola; Associate Professors Gordon A. Fellman, Charles S. Fisher, Rosabeth Moss Kanter, George W. Ross; Assistant Professors Charles Derber, Karen E. Fields, Gila J. Hayim (*Advising Head*), Kristine M. Rosenthal, Charlotte Weissberg.

Nature of the Program

The undergraduate program in sociology at Brandeis aspires to three objectives:

1. To teach and communicate an understanding of social life and social institutions.
2. To promote an understanding of the self and society in theory and practice.
3. To understand and initiate processes of personal growth and social change.

Requirements for Concentration

Required of all candidates: Eight semester courses in sociology, plus two semesters above the introductory level in other departments in the School of Social Science. Honors candidates take an additional course, SOC 99.

- *SOC 1a Freshman Seminar
- SOC 1b Freshman Seminar: Identity and the Youth Culture
- SOC 2a History of Sociological Theory
- SOC 4b Basic Concepts in Sociology
- SOC 4bR Basic Concepts in Sociology
- SOC 5a Introduction to Criminology
- *SOC 6aR Concepts of the Social Order
- *SOC 7a Basic Survey of Sociology
- *SOC 8a Education and Society
- SOC 10aR Feminist Critique of Contemporary Social Institutions
- SOC 90a, b Directed Independent Study
- SOC 97a, b Group Readings and Research in Sociology
- SOC 98a, b Individual Readings and Research in Sociology
- SOC 99 Senior Research
- SOC 102a Social Psychiatry
- SOC 102b Social Psychiatry (Advanced)
- *SOC 103a The Sociology of Mental Illness and Health
- SOC 106b Sociology of Literature
- SOC 107a Issues in Social Psychology
- SOC 107bR Issues in Social Psychology
- SOC 108b Critiques of Contemporary Society
- SOC 110b Sociology of Knowledge
- SOC 111a Political Sociology
- SOC 112b Social Class, Freedom and Equality
- *SOC 115a, b Evaluation of Human Social Organization
- *SOC 116b Multi-Ethnic Societies

SOC 117a Work and Society
 SOC 118aR (CJS 161aR) (NEJS 161aR) American Jewish Life and Institutions
 *SOC 118b (CJS 164b) (NEJS 164b) Sociology of American Jewish Community
 *SOC 120a, b (AAAS 121a, b) Sociology of Underdevelopment
 *SOC 122a Sociology of Power
 *SOC 125a Quantitative Methods in Research
 *SOC 126a Sociology of Deviance
 *SOC 126b The Institutions of Social Control
 *SOC 127b Deviant Communities
 SOC 130a The Family (Micro-Social Perspective)
 *SOC 130b The Family (Macro-Social Perspective)
 SOC H131a (POL H131a) Political and Social Institutions in Israel
 SOC 132a Urban Sociology: Field Studies in Social Class
 *SOC 132b Urban Sociology (Advanced)
 *SOC 135aR Freshman Seminar: Group Process
 *SOC 135b Advanced Group Process
 *SOC 141a Marx and Freud
 *SOC 141b Advanced Marx and Freud
 SOC 143aR Studies in Social Interaction, The Self and Society
 SOC 145a Sociology of Life Styles
 SOC 147a The Social Psychology of Organizations and Groups
 *SOC 148a Social Psychology of Consciousness
 *SOC 148b Social Psychology of Consciousness
 *SOC 150a The Sociology of Revolutionary Change
 SOC 151b Environmental Research
 SOC 152b The Sociology of Generations: The Adolescent in Society
 *SOC 154b Sociology of Science
 *SOC 155bR Social Movements
 SOC 163b Therapy and Punishment (Criminology II)
 SOC 164a Existential Sociology
 SOC 169a (AMSTD 169a) (CJS 175a) Religion and Ethnicity in American History
 *SOC 172b (AMSTD 150b) The Family in the United States
 SOC 180a Marxism and Sociology
 SOC 185a, b Research Methods and Statistics
 SOC 188b Sociology of Law
 SOC 190b On the Caring of Caretaker Institutions
 SOC 191a Health, Community and Society
 SOC 192b Healing and Healers

SOVIET STUDIES

Professor Joseph S. Berliner, *Chairman* (Economics); Assistant Professor Gregory L. Freeze (History); Assistant Professor Roy F. Grow (Politics); Associate Professor Barney K. Schwalberg (Economics); Associate Professor Robert Szulkin (Russian); Assistant Professor Joshua Rothenberg (NEJS); Assistant Professor David A. Hanson (Russian).

Soviet Studies is an interdisciplinary program for students concentrating in existing departments of the University. The purpose of the program is to allow students with an interest in Russia and the Soviet Union to acquire knowledge and develop skills in addition to those possible in existing concentrations. The program combines and integrates courses from a number of departments, and requires students to participate in an interdisciplinary seminar which results in a formal research project. Students must elect the program in addition to their regular concentrations; transcripts will indicate that they have completed the requirements of the program.

Requirements for the Program

1. Students must complete courses in HIST 147a, b (History of Russia) and RUS 6a (Advanced Readings in Russian Culture).
2. Completion of one advanced course dealing with Russia and the Soviet Union in *three* of the four disciplines participating in the program (history, literature, politics, economics).
3. Participation in the senior interdisciplinary seminar, Soviet Studies 97b. This seminar will investigate a single problem that benefits from interdisciplinary analysis. Seminar topics vary from year to year.

ECON 24a Soviet Economics

ECON 32b Comparative Economic Systems

HIST 147a Rise of Imperial Russia

HIST 147b History of Russia since 1861

***HIST 148a** Revolutionary Russia, 1890-1917

***HIST 149b** Culture and Thought in Imperial Russia, 1830-1880

NEJS 168a Jewish Life and Institutions in Eastern Europe, 1880-1918

NEJS 168b The History of the Jews in the Soviet Union

POL 130b The Political and Social Institutions of the Soviet Union

***POL 177b** China and the Soviet Union in World Affairs

POL 195a Communist Political Thought — Marx to Mao

RUS 6a Advanced Readings in Russian Culture (Expository Prose)

RUS 149b Twentieth Century Russian Literature

SOVST 97b XII, XIII

Interdisciplinary senior seminar. Students will be responsible for a major research project that must use primary sources in Russian. Topic: "Industrialization in the Soviet Union." Open to juniors with permission.

SPANISH

Faculty: See Romance and Comparative Literature.

Requirements for Concentration

- A. EULIT 100a and b in the first year of the concentration taken *in sequence*.
- B. Eight semester courses to be determined in consultation with the Concentration Adviser and approved by the faculty of the Spanish area. Of these, six must be from the Spanish offerings above the 105 level and two may be from related fields.
- C. EULIT 99c. Senior Seminar for all Romance and Comparative Literature concentrators.
- D. Departmental honors will be awarded on the basis of cumulative excellence of performance in the courses taken in the concentration and in the essay written for the Senior Seminar.

Certain offerings in Spanish literature, marked # below, are open to all students and are conducted in English with a dual reading list, each text being available in the original language and in English translation. Students wishing credit toward the Spanish concentration for such courses will be required to do all the reading in the original. These courses do meet the distribution requirement in the Humanities but do not meet the foreign literature requirement.

- SPAN 1 Beginning and Elementary Spanish
- SPAN 1aA Beginning and Elementary Spanish
- SPAN 1bB Intermediate and Advanced Intermediate Spanish
- SPAN 3a Intermediate Spanish
- SPAN 4b Advanced Intermediate Spanish
- SPAN 4bR Advanced Intermediate Spanish
- SPAN 5aR Reading Spanish
- SPAN 6a Readings in Spanish: An Introductory Course
- SPAN 6aR Readings in Spanish: An Introductory Course
- SPAN 98a, b Independent Study
- EULIT 99c Senior Seminar
- EULIT 100a Critical Approaches to European Literature
- EULIT 100b The Development of a Genre
- *SPAN 105b Intermediate Conversation and Composition
- SPAN 106b Studies in Advanced Spanish Translation
- SPAN 120a Cervantes: In-depth study of *Don Quijote*
- SPAN 125aR The Seventeenth Century
- *SPAN 130a Nineteenth Century Spanish Literature
- *SPAN 140bR Masters of Spanish Poetry
- *SPAN 150aR Spanish Drama of the *Siglo de Oro*
- *SPAN 160a In Search of Latin America
- SPAN 160bR Readings in Latin American Literature
- SPAN 161a Masters of Modern Latin American Poetry
- *#SPAN 162b Studies in Argentine and Brazilian Literature
- SPAN 163b Colonial and Nineteenth Century Latin American Literature
- #SPAN 170bR The Generation of 1898
- SPAN 180b Twentieth Century Spanish Literature



THEATER ARTS

Professor Charles W. Moore, *Chairman*; Professors Howard Bay, James H. Clay, Theodore L. Kazanoff, Kevin H. Smith (*Adjunct*); Associate Professors Martin Halpern, Maureen Henegan, David T. Vogt (*Adjunct*); Assistant Professors Muriel Rita Dolan, Robert O. Moody, Jr., Cheryl G. McFadden; Lecturer Daniel Gidron; Teaching Staff: Walter Dolan, Hilary Sherred, Barbara Harris.

Requirements for Concentration

A. All concentrators must complete 12 semester courses in the department. These must include THA 1, 2a, and three semester courses in dramatic theory and literature to be chosen from the courses numbered between 122a and 186b.

B. All concentrators are required to serve on the production crews of departmental productions twice in the sophomore year, once in the junior year and once in the senior year.

C. The award of departmental distinction will be conferred by the staff for exceptional scholarship or creativity.

D. With the permission of the adviser and the instructor, especially qualified undergraduates may enroll in graduate courses.

- THA 1 Introduction to Drama and the Theater
- THA 2a Physical Production I
- THA 2b Physical Production II
- THA 3 Acting
- THA 5 Voice and Speech Studies for the Actor
- *THA 7 Modern Dance
- THA 9 Movement for the Actor
- THA 22 Scene Design and Stage Lighting
- THA 26a Costume Design
- THA 33 Intermediate Acting
- THA 97 Tutorial Acting: Design
- THA 98 Independent Study
- *THA 102 Directing
- *THA 104 Dramatic Writing
- THA 122a Modern Drama
- THA 123b Contemporary Drama
- THA 124a (ENG 33a) Shakespeare
- *THA 124b (ENG 33b) Shakespeare
- THA 125a (AMSTD 125a) History of American Drama
- THA 125b (AMSTD 125b) History of American Drama: 1919 to the Present
- THA 133bR (COLIT 133bR) Aristocratic and Popular Drama in Japan and the West
- THA 135b (AMSTD 135b) The History of Popular Arts in America
- THA 140a (ENG 140a) Advanced Shakespeare
- THA 145a (AAAS 135a) Black Drama I
- THA 145b (AAAS 135b) Black Drama II
- *THA 165a Greek Drama
- *THA 170aR (ENG 143a) Elizabethan and Jacobean Drama
- *THA 171a (MUSIC 171a) History of Music and Drama Criticism
- THA 180a Seminar in Production Concepts
- THA 180b Seminar in Production Concepts

URBAN STUDIES

Committee: Associate Professor David Jacobson (Anthropology), *Chairman*; Associate Professors Gerald Bernstein (Fine Arts), Leonard Hausman (Economics and Heller School); Assistant Professor Elliott Sclar (Economics and Heller School).

The Program in Urban Studies is designed to give undergraduates the opportunity to study and systematically analyze the urban area from an interdisciplinary perspective. The complexity of the urban world requires such a perspective. However, this analysis also should proceed from the fundamental concepts and methods of one of the social science disciplines; the analytical techniques acquired from one of them will then be applied to the urban area. These interdisciplinary and disciplinary goals are reflected in the requirements of the Program listed below.

Students normally will declare their intention to enter the Program at the time of declaring fields of concentration in the spring. They may concentrate in any University department; their degree will be in that concentration with the additional citation that they have fulfilled the requirements of the Program in Urban Studies.

Requirements for the Program

A. Satisfactory completion of URBST 101b, preferably no later than the student's sophomore year.

B. Satisfactory completion of four courses in a single social science discipline. The aim of this requirement is to provide students with the fundamentals of the discipline. Thus most or all of these four courses will not be urban related, but rather introductory and fundamental courses in the discipline.

C. Satisfactory completion of four urban related courses in other disciplines. Normally these will be selected from the list below, but as note**explains, other courses may be included if they are relevant to the student's particular program in Urban Studies. Students should consult with their advisers in Urban Studies for details.

D. Students will have the option of writing a senior honors thesis in Urban Studies that also satisfies the student's departmental honors requirement, with the approval of that department.

Each student in the Program will be assigned an adviser to help the student develop his or her individual program around his or her intellectual interests. A non-credit Urban Studies colloquium series will focus on policy problems.

URBST 98a, b Independent Study

URBST 99 Senior Research

***URBST 101b** The Limits of the Market and Public Policies

**Several other courses may be relevant to individual students' particular program in Urban Studies such as AMSTD 85b, ANTHR 156bR, ECON 155b, POL 94b, POL 101b, POL 104b. Students should consult their Urban Studies adviser for further details on such courses.

YIDDISH

Faculty: (See NEJS).

Y 1 (CJS 21) (NEJS 21) Introductory Yiddish

Y 2 (CJS 24) (NEJS 24) Intermediate Yiddish

Y 6 (CJS 25) (NEJS 25) Introduction to Yiddish Literature

***Y 171b (CJS 171b) (NEJS 171b)** Trends and Values in Yiddish Literature

***Y 173b (CJS 173b) (NEJS 173b)** Seminar in Yiddish Literature: Contemporary Poetry



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Under Massachusetts law, the 50-member Board of Trustees is the governing body of the University, and includes representatives from the faculty and the student body. Trustees serve five-year terms.

The President and the Chancellor

The President is the chief executive officer of the University. He is appointed by the Board of Trustees and is responsible for all University activities. Chancellor of the University is an honorary title held by Abram L. Sachar, whose 20 years of experience as first president of Brandeis is now utilized for the welfare of the University. The Chancellorship carries no administrative responsibilities.

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The Dean of Faculty supervises academic policy, undergraduate and graduate curriculum, the faculty and its departments of instruction.

The Dean of the College of Arts and Sciences assumes responsibility for many areas affecting the academic lives of undergraduates, including curriculum development, advisory services and the academic progress of students.

The Dean of the Graduate School of Arts and Sciences oversees the individualized programs of study for scholars, scientists and artists in 20 disciplines.

The Dean of the Florence Heller Graduate School for Advanced Studies in Social Welfare oversees the academic activities of the University's first and only professional school, and its work in such areas as health, aging, income and employment, and minorities.

The Faculty Senate

The Faculty Senate is the representative body of the faculty, and may initiate discussion of such issues as academic freedom and responsibility, University policy, appointments, tenure, dismissal and salaries.

The Board of Fellows

Created in 1951, the Board of Fellows consists of more than 300 national leaders from a broad base of business, educational and public life. Its members lend counsel, expertise and support to University development and planning programs.

The President's Council

President's Councilors are leading men and women throughout the country whose skills and experience are placed at the disposal of the Brandeis President in areas of their special competence.

National Women's Committee

The National Women's Committee, now an organization of approximately 60,000 members, has been a partner with the University since 1948. This volunteer organization gives its membership a wide range of educational offerings. These include unique study group programs with syllabi provided by Brandeis faculty; adult education seminars in local communities called "University on Wheels"; and special lectures by University speakers. The 115 chapters across the country are embassies of good will for the University. The central commitment of the Women's Committee, however, is to the Brandeis University libraries. Since it was founded by seven members in Boston, it has raised over 13 million dollars in support of the libraries.

University Libraries

From an initial 2,000 volumes housed in a remodeled stone stable in 1948, the holdings of the Goldfarb Library and the Gerstenzang Library of Science today number 658,000 volumes. The libraries boast an impressive collection of microform holdings, as well as periodical titles and newspapers.

Alumni Relations

The Office of Alumni Relations, located in the Bernstein-Marcus Administration Center, directs and coordinates programs and publications for more than 11,000 Brandeis alumni, the National Alumni Association, regional Alumni Chapters and the Alumni Fund.



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Ph.D., University of California, Berkeley

Philip Fisher, *Assistant Professor of English

Ph.D., Harvard University

Susan Forbes, *Assistant Professor of American Studies

Ph.D., University of Pennsylvania

Marvin Fox, *Philip W. Lown Professor of Jewish Philosophy*

Ph.D., University of Chicago

Robert A. Fox, *Visiting Assistant Professor of Physics*

Ph.D., New York University

Bruce M. Foxman, *Assistant Professor of Chemistry*

Ph.D., Massachusetts Institute of Technology

Gregory L. Freeze, *Assistant Professor of History*

Ph.D., Columbia University

David M. Freifelder, *Professor of Biochemistry*

Ph.D., University of Chicago

*****Eberhard Frey, *Associate Professor of German***

Ph.D., Cornell University

Lawrence H. Fuchs, *Meyer and Walter Jaffe Professor of American Civilization and Politics*

Ph.D., Harvard University

Chandler M. Fulton, *Professor of Biology*

Ph.D., Rockefeller Institute

****Joachim E. Gaehde, *Sidney and Ellen Wien Professor in the History of Art***

Ph.D., New York University

Miriam Galston, *Assistant Professor of Near Eastern and Judaic Studies*

Ph.D., University of Chicago

(*On the Andrew Mellon Grant*)

William C. Gay, *Lecturer in Philosophy*

Ph.D., Boston College

Stephen J. Gendzier, *Associate Professor of French*

Ph.D., Columbia University

Roger Z. George, *Instructor in Politics*

M.A., Fletcher School, Tufts University

John Gibbons, *Performing Artist-in-Residence (Music)*

B.Mus., New England Conservatory

Martin Gibbs, *Professor of Biology*

Ph.D., University of Illinois

Patricia J. Gibson, *Instructor in African and Afro-American Studies*

M.F.A., Brandeis University

Daniel Gidron (Greenblat), *Lecturer in Theater Arts*

M.F.A., Brandeis University

Michael T. Gilmore, *Assistant Professor of English

Ph.D., Harvard University

Nahum Norbert Glatzer, *Professor Emeritus of Jewish History and Social Ethics*

Ph.D., University of Frankfurt

Ivan Gold, *Visiting Lecturer in English*

M.A., University of London

Ariella D. Goldberg, *Assistant Professor of Hebrew

Ph.D., Brandeis University

*****Susan Goldberg, *Assistant Professor of Psychology***

Ph.D., University of Massachusetts

Sidney Golden, *Henry F. Fischbach Professor of Chemistry*

Ph.D., Harvard University

Maynard Goldman, *Performing Artist-in-Residence (Music)*

B.Mus., Boston University

William M. Goldsmith, *Associate Professor of American Studies*

Ph.D., Columbia University

Fred Goldstein, *Performing Artist-in-Residence (Music)*

B.A., Queens College

* On leave, 1976-77.

*** On leave, Spring Term, 1976-77.

Cyrus H. Gordon, *Professor Emeritus of
Mediterranean Studies*

Ph.D., University of Pennsylvania

William S. Gornall, *Assistant Professor of Physics*

Ph.D., University of Toronto

Moshe Goshen-Gottstein, *Visiting Professor of
Near Eastern and Judaic Studies*

Ph.D., Harvard University

(Hebrew University, Jerusalem)

James R. Green, *Assistant Professor of History*

Ph.D., Yale University

Ralph Greenberg, *Assistant Professor of
Mathematics*

Ph.D., Princeton University

Robert S. Greenberg, *Associate Professor of
Philosophy*

Ph.D., University of Chicago

Peter Grippe, *Lester and Joan Avnet Professor of
Sculpture*

Marcus T. Grisaru, *Professor of Physics*

Ph.D., Princeton University

*****Eugene P. Gross**, *Sol Kittay Professor of Physics*

Ph.D., Princeton University

Allen R. Grossman, *Associate Professor of English*

Ph.D., Brandeis University

Roy F. Grow, *Assistant Professor of Politics*

Ph.D., University of Michigan

Ernest Grunwald, *Professor of Chemistry*

Ph.D., University of California, Los Angeles

Mildred Guberman, *Lecturer in Contemporary
Jewish Studies*

M.S.W., Columbia University

Ignacio Guerrero, *Visiting Assistant Professor of
Mathematics*

Ph.D., State University of New York, Stony Brook

Edythe C. Haber, *Visiting Assistant Professor of
Russian*

Ph.D., Harvard University

James E. Haber, *Assistant Professor of Biology and
Rosenstiel Basic Medical Sciences Research
Center*

Ph.D., University of California, Berkeley

Jeffrey C. Hall, *Assistant Professor of Biology*

Ph.D., University of Washington

Shirley L. Hall, *Lecturer in African and Afro-
American Studies*

M.A., Boston University

Benjamin Halpern, *Richard Koret Professor of Near
Eastern Studies*

Ph.D., Harvard University

Martin Halpern, *Associate Professor of Theater Arts*

Ph.D., Harvard University

Harlyn O. Halvorson, *Professor of Biology and
Director, Rosenstiel Basic Medical Sciences
Research Center*

Ph.D., University of Illinois

Eugenia Hanfmann, *Professor Emerita of
Psychology*

Ph.D., University of Jena

David A. Hanson, *Assistant Professor of Russian*

Ph.D., Harvard University

Victor Harris, *Edytha Macy Gross Professor of
Humanities*

Ph.D., University of Chicago

Erica Harth, *Associate Professor of French and
Comparative Literature*

Ph.D., Columbia University

Gila J. Hayim, *Assistant Professor of Sociology*

Ph.D., University of Pennsylvania

Peter Heller, *Professor of Physics*

Ph.D., Harvard University

Michael J. Henchman, *Associate Professor of
Chemistry*

Ph.D., Yale University

James B. Hendrickson, *Professor of Chemistry*

Ph.D., Harvard University

Maureen Heneghan, *Associate Professor of
Costume Design*

*****Maurice Hershenson**, *Associate Professor of
Psychology*

Ph.D., Yale University

(On the George and Frances Levin Foundation)

William E. Higgins, *Assistant Professor of Classics*

Ph.D., Harvard University

Donald Hindley, *Professor of Politics*

Ph.D., Australian National University

Milton Hindus, *Professor of English*

M.S., City College of New York

Morris W. Hirsch, *Visiting Professor of
Mathematics*

Ph.D., University of Chicago

(University of California, Berkeley)

Thomas C. Hollocher, Jr., *Associate Professor of
Biochemistry*

Ph.D., University of Rochester

Jen-Shiang Hong, *Assistant Professor of
Biochemistry*

Ph.D., University of California, Berkeley

David M. Hoose, *Instructor in Music*

B.M., Oberlin Conservatory of Music

Benjamin B. Hoover, *Professor of English*

Ph.D., University of California, Berkeley

David A. Horr, *Assistant Professor of Anthropology*

Ph.D., Harvard University

Judith A. Houde, *Instructor in Physical Education*

M.S.Ed., University of Tennessee

*** On leave, Spring Term, 1976-77.

- Everett C. Hughes**, *Professor Emeritus of Sociology*
Ph.D., University of Chicago
- Mark L. Hulliung**, *Assistant Professor of Politics*
Ph.D., Harvard University
- Robert C. Hunt**, *Associate Professor of Anthropology*
Ph.D., Northwestern University
- Kiyoshi Igusa**, *Assistant Professor of Mathematics*
B.A., University of Chicago
- David J. Ingle**, *Visiting Associate Professor of Psychology*
Ph.D., University of Chicago
- Judith T. Irvine**, *Assistant Professor of Anthropology*
Ph.D., University of Pennsylvania
- Alfred L. Ivry**, *Professor of Islamic and Jewish Philosophy*
D.Phil., University of Oxford
- Ray S. Jackendoff**, *Associate Professor of Linguistics*
Ph.D., Massachusetts Institute of Technology
- David Jacobson**, *Associate Professor of Anthropology*
Ph.D., University of Rochester
- Frank R. Jacoby**, *Lecturer in German*
Ph.D., Columbia University
- Hans P. Jakobsen**, *Assistant Professor of Mathematics*
Ph.D., Massachusetts Institute of Technology
- William P. Jencks**, *Professor of Biochemistry*
M.D., Harvard University
- ***Leon A. Jick**, *Associate Professor of American Jewish Studies*
Ph.D., Columbia University
(On the Helen and Irving Schneider Foundation)
- William A. Johnson**, *Albert V. Daniels Professor of Christian Thought*
Ph.D., Columbia University
- Patricia A. Johnston**, *Assistant Professor of Classics*
Ph.D., University of California, Berkeley
- Robert C. Jones**, *Instructor in African and Afro-American Studies*
B.A., Brandeis University
- Peter C. Jordan**, *Associate Professor of Chemistry*
Ph.D., Yale University
- Lisel K. Judge**, *Associate Professor of Physical Education*
M.Ed., Northeastern University
- Donald N. Kaiser**, *Assistant Professor of Psychology*
Ph.D., Ohio State University
- Rosabeth Moss Kanter**, *Associate Professor of Sociology*
Ph.D., University of Michigan
- David Kaplan**, *Professor of Anthropology*
Ph.D., University of Michigan
- Theodore L. Kazanoff**, *Professor of Theater Arts*
M.A., Smith College
- Philip M. Keehn**, *Assistant Professor of Chemistry*
Ph.D., Yale University
- Allan R. Keiler**, *Assistant Professor of Music*
Ph.D. (Linguistics), Harvard University
- Morton Keller**, *Samuel J. and Augusta Spector Professor of History*
Ph.D., Harvard University
- *George A. Kelly**, *Professor of Politics*
Ph.D., Harvard University
- Albert Kelner**, *Abraham S. and Gertrude Burg Professor of Microbiology*
Ph.D., University of Pennsylvania
- Paul O. Kirley**, *Visiting Assistant Professor of Mathematics*
Ph.D., Northwestern University
- Lawrence E. Kirsch**, *Associate Professor of Physics and Director of Feldberg Computer Center*
Ph.D., Rutgers University
- Attila O. Klein**, *Associate Professor of Biology*
Ph.D., Indiana University
- Karen Wilk Klein**, *Associate Professor of English*
Ph.D., Columbia University
- Raymond Knight**, *Assistant Professor of Psychology*
Ph.D., University of Minnesota
- Robert Lincoln Koff**, *Professor of Music and Artist-in-Residence*
B.Mus., Oberlin College
- Kenneth Kustin**, *Professor of Chemistry*
Ph.D., University of Minnesota
- Michele Schurgin Lachman**, *Visiting Assistant Professor of English*
Ph.D., Brandeis University
- James R. Lackner**, *Associate Professor of Psychology*
Ph.D., Massachusetts Institute of Technology
- Robert V. Lange**, *Associate Professor of Physics*
Ph.D., Harvard University
- Richard H. Lansing**, *Assistant Professor of Italian and Comparative Literature*
Ph.D., University of California, Berkeley
- *Louis Lefebvre**, *Fred C. Hecht Professor of International Economics*
Ph.D., Massachusetts Institute of Technology
- *Alan Lechuk**, *Assistant Professor of English*
Ph.D., Stanford University
- Max Lerner**, *Professor Emeritus of American Civilization and Institutions*
Ph.D., Robert Brookings Graduate School

* On leave, 1976-77.

*** On leave, Spring Term, 1976-77.

***Martin A. Levin, Associate Professor of Politics**
Ph.D., Harvard University

Harold I. Levine, Professor of Mathematics
Ph.D., University of Chicago

*****Jerome P. Levine, Professor of Mathematics**
Ph.D., Princeton University

Lawrence Levine, Professor of Biochemistry
Sc.D., The Johns Hopkins University
(*American Cancer Society Professorship*)

Norman E. Levine, Associate Professor of Physical Education
B.S., Bates College

Alan L. Levitan, Associate Professor of English
Ph.D., Princeton University

Avigdor Levy, Visiting Associate Professor of Near Eastern and Judaic Studies
Ph.D., Harvard University
(*Tel Aviv University*)

Denah L. Lida, Professor of Spanish
Ph.D., University of Mexico

David I. Lieberman, Professor of Mathematics
Ph.D., Massachusetts Institute of Technology

Henry Linschitz, Helena Rubinstein Professor of Chemistry
Ph.D., Duke University

***Edgar Lipworth, Professor of Physics**
Ph.D., Columbia University

John E. Lisman, Assistant Professor of Biology
Ph.D., Massachusetts Institute of Technology

Elaine P. Loeffler, Associate Professor of Fine Arts
B.A., Smith College

John M. Lowenstein, Helena Rubinstein Professor of Biochemistry
Ph.D., London University

Susan Lowey, Professor of Biochemistry and Rosenstiel Basic Medical Sciences Research Center
Ph.D., Yale University

David Lynch, Visiting Assistant Professor of English
Ph.D., Brandeis University

Roy C. Macridis, Lawrence A. Wien Professor of International Cooperation
Ph.D., Harvard University

Donald L. Maddox, Assistant Professor of Romance Literature
Ph.D., Duke University
(*On the Andrew Mellon Grant*)

John J. Mader, Instructor in Physics
Ph.D., Brandeis University

Robert J. Maeda, Associate Professor of Fine Arts
Ph.D., Harvard University

* On leave, 1976-77.

** On leave, Fall Term, 1976-77.

*** On leave, Spring Term, 1976-77.

Joan M. Maling, Assistant Professor of Linguistics
Ph.D., Massachusetts Institute of Technology

****Robert A. Manners, Ralph Levitz Professor of Social Anthropology**
Ph.D., Columbia University

Daniel J. Margolis, Lecturer in Jewish Education
M.A., Teachers College, Columbia University

Teruhisa Matsusaka, Irving Schneider Professor of Mathematics
D.Sc., Kyoto University

John F. Matthews, Max Richter Professor of American Civilization and Institutions
A.B., University of Cincinnati

Alan L. Mayer, Professor of Mathematics
Ph.D., Princeton University

Leslie Ann McArthur, Assistant Professor of Psychology
Ph.D., Yale University

Cheryl G. McFadden, Assistant Professor of Theater Arts
B.A., Brandeis University

Glenn McNatt, Instructor in African and Afro-American Studies
M.A., Brandeis University

***Marvin Meyers, Harry S. Truman Professor of American Civilization**
Ph.D., Columbia University

Christopher Miller, Assistant Professor of Biochemistry
Ph.D., University of Pennsylvania

Henri E. Mitter, Visiting Lecturer in Physics
Ph.D., Princeton University

Paul H. Monsky, Professor of Mathematics
Ph.D., University of Chicago

Robert O. Moody, Jr., Assistant Professor of Theater Arts

Charles W. Moore, Professor of Theater Arts
M.F.A., Yale University

Richard Moore, Fannie Hurst Visiting Professor of English
M.A., Trinity College

Ricardo B. Morant, Minnie and Harold L. Fierman Professor of Psychology
Ph.D., Clark University

Ruth Schachter Morgenthau, Adlai E. Stevenson Professor of International Politics
Ph.D., Oxford University, England

Martha A. Morrison, Instructor in Mediterranean Studies
Ph.D., Brandeis University

*****Leonard C. Muellner, Assistant Professor of Classics**
Ph.D., Harvard University

William T. Murakami, Associate Professor of Biochemistry
Ph.D., University of Southern California

Marcos G. Namashulua, Instructor in African and Afro-American Studies

M.A., Fordham University

Laura L. Nash, Instructor in Classics

Ph.D., Harvard University

***Peter B. Natchez, Assistant Professor of Politics**

Ph.D., Harvard University

Alfred Nisonoff, Professor of Biology and Rosenstiel Basic Medical Sciences Research Center

Ph.D., The Johns Hopkins University

Edward C. Nowacki, Instructor in Music

B.A., University of Toronto

Isaac Neustadt-Noy, Lecturer in Jewish History

Ph.D., Brandeis University

Wellington W. Nyangoni, Assistant Professor of African and Afro-American Studies

Ph.D., Howard University

Thomas P. O'Connell, Lecturer in Physical Education

M.Ed., Suffolk University

Susan Moller Okin, Assistant Professor of Politics

Ph.D., Harvard University

James D. Olesen, Assistant Professor of Music

B.A., University of Chicago

****Gjerding Olsen, Associate Professor of Biology**

Ph.D., Harvard University

Richard J. Onorato, Associate Professor of English

Ph.D., Harvard University

Bruce I. Oppenheimer, Assistant Professor of Politics

Ph.D., University of Wisconsin

***Richard S. Palais, Professor of Mathematics**

Ph.D., Harvard University

Ronald J. Parry, Assistant Professor of Chemistry

Ph.D., Brandeis University

Hugh N. Pendleton III, Associate Professor of Physics

Ph.D., Carnegie Institute of Technology

Robert J. Pero, Visiting Assistant Professor of Fine Arts

B.A., University of Massachusetts

Peter A. Petri, Assistant Professor of Economics

A.B., Harvard University

Mordeca Jane Pollock, Assistant Professor of French

Ph.D., Harvard University

Joan L. Press, Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center

Ph.D., University of Pennsylvania

Robert O. Preyer, Professor of English

Ph.D., Columbia University

Judith Rauchwarger, Visiting Assistant Professor of Spanish

Ph.D., University of Chicago

Benjamin C. I. Ravid, Associate Professor of Jewish History

Ph.D., Harvard University

Esther E. Rawidowicz, Assistant Professor Emerita of German

Ph.D., University of Berlin

Alfred G. Redfield, Professor of Physics and Biochemistry and Rosenstiel Basic Medical Sciences Research Center

Ph.D., University of Illinois

Bernard Reisman, Associate Professor of American Jewish Communal Studies and Director, Hornstein Program

Ph.D., Brandeis University

Joshua Rifkin, Assistant Professor of Music

M.F.A., Princeton University

Bryan E. Roberts, Assistant Professor of Biology

Ph.D., University of Oxford, England

***Marguerite S. Robinson, Associate Professor of Anthropology**

Ph.D., Harvard University

Charles Rockland, Assistant Professor of Mathematics

Ph.D., Princeton University

Nicholas Rodis, Professor of Physical Education

Ed.M., American International College

Charles H. Rogovin, Lecturer in Legal Studies

LL.B., Columbia University Law School

(On the Harold and Harriet Toor Fund)

Michael Rosbash, Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center

Ph.D., Massachusetts Institute of Technology

***Steven J. Rosen, Assistant Professor of Politics**

Ph.D., Syracuse University

Myron Rosenblum, Professor of Chemistry

Ph.D., Harvard University

Kristine M. Rosenthal, Assistant Professor of Sociology

Ed.D., Harvard University

*****George W. Ross, Associate Professor of Sociology**

Ph.D., Harvard University

Harry L. Rosser, Assistant Professor of Spanish

Ph.D., University of North Carolina

Joshua Rothenberg, Assistant Professor of Near Eastern and Judaic Studies

M.A., Rutgers University

Zick Rubin, Professor of Social Psychology

Ph.D., University of Michigan

Ruth S. Rubinow, Performing Artist-in-Residence (Music)

Ed.M., Harvard Graduate School of Education

* On leave, 1976-77.

*** On leave, Spring Term, 1976-77.

Murray Sachs, Professor of French

Ph.D., Columbia University

I. Milton Sacks, Morris Hillquit Professor of Labor and Social Thought

Ph.D., Yale University

Benson Saler, Associate Professor of Anthropology

Ph.D., University of Pennsylvania

Nahum M. Sarna, Dora Golding Professor of Biblical Studies

Ph.D., Dropsie College

Kathleen M. Sayers, Lecturer in Spanish

M.A., University of Kansas

Jerome A. Schiff, Abraham and Etta Goodman Professor of Biology

Ph.D., University of Pennsylvania

Robert F. Schleif, Associate Professor of Biochemistry

Ph.D., University of California, Berkeley

*****Howard J. Schnitzer, Professor of Physics**

Ph.D., University of Rochester

Frances M. Scholz, Visiting Lecturer in German

Ph.D., University of California, Berkeley

John E. Schrecker, Associate Professor of History

Ph.D., Harvard University

****Barney K. Schwalberg, Associate Professor of Economics**

Ph.D., Harvard University

Lawrence M. Schwartz, Assistant Professor of Physics

Ph.D., Harvard University

****Morris S. Schwartz, Mortimer Gryzmish Professor of Human Relations**

Ph.D., University of Chicago

Gerald W. Schwarz, Assistant Professor of Mathematics

Ph.D., Massachusetts Institute of Technology

****Silvan S. Schweber, Professor of Physics**

Ph.D., Princeton University

Harold S. Shapiro, Walter W. Naumburg Professor of Music

A.B., Harvard University

Seymour J. Shifrin, Professor of Music

M.A., Columbia University

***Marianne L. Simmel, Professor of Psychology**

Ph.D., Harvard University

****Louis Simpson, Fannie Hurst Visiting Professor of English**

Ph.D., Columbia University

(State University of New York, Stony Brook)

****Marshall Sklare, Nathan and Janet Appleman Professor of American Jewish Studies and Sociology**

Ph.D., Columbia University

A. Mark Smith, Assistant Professor of Philosophy

M.A., University of Wisconsin

(On the Andrew Mellon Grant)

John H. Smith, Professor of English

Ph.D., University of Illinois

Kevin H. Smith, Adjunct Professor of Film

A.B., University of Washington

(On the Sam Spiegel Foundation)

Frederic T. Sommers, Harry A. Wolfson Professor of Philosophy

Ph.D., Columbia University

Morris Soodak, Associate Professor of Biochemistry

Ph.D., Fordham University

****S. Susan Staves, Associate Professor of English**

Ph.D., University of Virginia

Colin Steel, Associate Professor of Chemistry

Ph.D., Edinburgh University

Maurice R. Stein, Jacob S. Potofsky Professor of Sociology

Ph.D., Columbia University

***Robert F. Stein, Assistant Professor of Astrophysics**

Ph.D., Columbia University

David Joel Steinberg, Adjunct Professor of History

Ph.D., Harvard University

Raymond E. Stephens, Associate Professor of Biology

Ph.D., Dartmouth College

Robert Stevenson, Professor of Chemistry

D.Sc., Glasgow University

Douglas J. Stewart, Professor of Classics

Ph.D., Cornell University

Helen L. Stewart, Assistant Professor of African and Afro-American Studies

M.A., Boston University

Ernest Stock, Adjunct Associate Professor of Near Eastern and Judaic Studies

Ph.D., Columbia University

Robert D. Stout, Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center

Ph.D., University of Michigan

Mary E. Sullivan, Instructor in Physical Education

B.S., Boston State College

Christian H. Susini, Visiting Lecturer in French

Agregation Université de Clermont-Ferrand, France

*****Peter Swiggart, Professor of English**

Ph.D., Yale University

Marie Syrkin, Professor Emerita of Humanities

M.A., Cornell University

Andrew G. Szent-Gyorgyi, Professor of Biology

M.D., University of Budapest

* On leave, 1976-77.

** On leave, Fall Term, 1976-77.

*** On leave, Spring Term, 1976-77.

*****Robert Szulkin, Associate Professor of Russian**
Ph.D., Harvard University

**Duane R. Taylor, Assistant Professor of African and
Afro-American Studies**
M.A., Brandeis University

**Richard S. Tedlow, Lecturer with rank of Assistant
Professor of American Studies**
Ph.D., Columbia University

Ralph Thaxton, Assistant Professor of Politics
Ph.D., University of Wisconsin

Serge N. Timasheff, Professor of Biochemistry
Ph.D., Fordham University

**Robert P. Tinkelman, Assistant Professor of
Physics**
M.S., Massachusetts Institute of Technology

Caldwell Titcomb, Associate Professor of Music
Ph.D., Harvard University

**Ian A. Todd, Assistant Professor of Mediterranean
Studies**
Ph.D., University of Birmingham, England

Judith Ebel Tsipis, Assistant Professor of Biology
Ph.D., Massachusetts Institute of Technology

**Thomas R. Tuttle, Jr., Associate Professor of
Chemistry**
Ph.D., Washington University

**Peter T. Van Aken, Adjunct Associate Professor of
Economics**
M.B.A., Harvard University

Milton I. Vanger, Professor of History
Ph.D., Harvard University

***John van Heijenoort, Professor of Philosophy**
Ph.D., New York University

Helen Van Vunakis, Professor of Biochemistry
Ph.D., Columbia University
(On a Research Career Award, National Institutes of
Health)

**Peter Varkonyi, Assistant Professor of French and
Comparative Literature**
Ph.D., University of California, Santa Barbara

**Arturo Vivante, Fannie Hurst Visiting Professor of
English**
M.D., Rome University

David T. Vogt, Adjunct Associate Professor of Film
B.A., Colby College

**Ernest Wamba, Lecturer in African and Afro-
American Studies**
M.B.A., Claremont Graduate School

**John F. C. Wardle, Assistant Professor of
Astrophysics**
Ph.D., University of Manchester, England

**Richard S. Weckstein, Carl Marks Professor of
Economics**
Ph.D., Yale University

**Charlotte Weissberg, Assistant Professor of
Sociology**
Ph.D., University of Chicago

**Morris Weitz, Richard Koret Professor of
Philosophy**
Ph.D., University of Michigan

****Hermann F. Wellenstein, Assistant Professor of
Physics**
Ph.D., University of Texas

**Pieter C. Wensink, Assistant Professor of
Biochemistry and Rosenstiel Basic Medical
Sciences Research Center**
Ph.D., The Johns Hopkins University

Kalpana P. White, Assistant Professor of Biology
Ph.D., Princeton University

**Stephen J. Whitfield, Assistant Professor of
American Studies**
Ph.D., Brandeis University

**Brenda Ann Wiechmann, Lecturer in Women's
Physical Education**
M.Ed., South Dakota State University

**Thomas M. Williams, Assistant Professor of
Economics**
M.A., University of Chicago

**Arthur Wingfield, Associate Professor of
Psychology**
Ph.D., Oxford University

**Peter D. Witt, Lecturer in American Studies and
Director of Education Program**
Ed.D., Harvard University

**Jerome Wodinsky, Associate Professor of
Psychology**
Ph.D., University of Texas

Thomas J. Wolf, Assistant Professor of English
Ph.D., University of California, Berkeley

**Kurt H. Wolff, Manuel Yellen Professor of Social
Relations**
Ph.D., University of Florence

Peter Woll, Professor of Politics
Ph.D., Cornell University

David Wong, Lecturer in Philosophy
B.A., Macalester College

Luis E. Yglesias, Associate Professor of Spanish
Ph.D., Harvard University

**Dwight W. Young, Professor of Ancient Near
Eastern Civilization**
Ph.D., Dropsie College

**Louis V. Žabkar, Joseph and Esther Foster
Professor of Mediterranean Studies**
Ph.D., University of Chicago

* On leave, 1976-77.

** On leave, Fall Term, 1976-77.

*** On leave, Spring Term, 1976-77.

Judith Francis Zeitlin, *Instructor in Anthropology*
M.Phil., Yale University

Robert N. Zeitlin, *Instructor in Anthropology*
M.Phil., Yale University

David B. Zilberman, *Lecturer with rank of Assistant Professor of Philosophy and History of Ideas*

Ph.D., Institute of Social Research, Academy of Science, USSR

Harry Zohn, *Professor of German*
Ph.D., Harvard University

Irving K. Zola, *Professor of Sociology*
Ph.D., Harvard University

Jacob Hiatt Institute

Ernest Stock, Ph.D., *Adjunct Associate Professor, Dept. of Near Eastern & Judaic Studies, Brandeis University*

Director

Asher Arian, Ph.D., *Professor of Politics, Tel Aviv University*

Visiting Lecturer in Political Institutions

Shoshana Blum, Ph.D., *Lecturer in Applied Linguistics, The Hebrew University*

Director of Hebrew Studies

Paul Flohr, Ph.D., *Lecturer in Jewish Thought, The Hebrew University*

Visiting Lecturer in Modern Jewish Intellectual History

Amiram Gonen, Ph.D., *Senior Lecturer in Social Geography, The Hebrew University*

Visiting Lecturer in Social Institutions

Eric M. Meyers, Ph.D., *Professor, Duke University*
Visiting Lecturer in Archaeology

Haim Tadmor, Ph.D., *Professor of Assyriology, The Hebrew University*

Visiting Lecturer in Biblical History

Alex Weingrod, Ph.D., *Professor of Anthropology, Ben Gurion University (Beersheba)*

Visiting Lecturer in Social Institutions

Florence Heller Graduate School for Advanced Studies in Social Welfare

Robert H. Binstock, *Louis Stulberg Professor of Politics and Social Welfare*

Ph.D., Harvard University

Gunnar Dybwad, *Samuel and Rose Gingold Professor of Human Development*

J.D., University of Halle, Germany

Barry L. Friedman, *Lecturer with rank of Assistant Professor of Economic Research*

Ph.D., Massachusetts Institute of Technology

Janet Z. Giele, *Lecturer with rank of Associate Professor*

Ph.D., Radcliffe College

*****David G. Gil, *Professor of Social Policy***
D.S.W., University of Pennsylvania

Arnold Gurin, *Maurice B. Hexter Professor of Social Administration

Ph.D., University of Michigan

Leonard J. Hausman, *Associate Professor of Social Research*

Ph.D., University of Wisconsin

Robert Hudson, *Assistant Professor of Politics and Social Welfare*

Ph.D., University of North Carolina

Kenneth J. Jones, *John Stein Professor of Social Research*

Ed.D., Harvard University

Wyatt C. Jones, *Professor of Social Research*

Ph.D., New York University

Lorraine V. Klerman, *Associate Professor of Public Health*

D.P.H., Harvard University School of Public Health

Norman R. Kurtz, *Associate Professor of Social Research*

Ph.D., University of Colorado

Ann E. MacEachron, *Lecturer with rank of Assistant Professor*

Ph.D., Cornell University

Robert Morris, *Meyer and Ida Kirstein Professor of Social Planning*

D.S.W., Columbia University

Joseph Morrissey, *Lecturer with rank of Assistant Professor*

Ph.D., University of North Carolina

Robert Perlman, *Professor of Social Welfare*

Ph.D., Brandeis University

Charles I. Schottland, *Dean, Joseph M. Proskauer Professor of Law and Social Welfare*

LL.B., University of Southern California Law School; Certificate, Graduate School of Jewish Social Work, New York School of Social Work

****James H. Schulz, *Professor of Welfare Economics***

Ph.D., Yale University

Elliott Sclar, *Assistant Professor of Urban Political Economy*

Ph.D., Tufts University

John F. Scott, *Adjunct Associate Professor of Social Research*

Ph.D., Brandeis University

Violet M. Sieder, *Professor Emerita of Community Organization*

Ph.D., Brandeis University

* On leave, 1976-77.

** On leave, Fall Term, 1976-77.

*** On leave, Spring Term, 1976-77.

John P. Spiegel, *Professor of Social Psychiatry*
M.D., Northwestern University; Graduate, Chicago
Institute for Psychoanalysis

Roland L. Warren, *Professor of Community Theory*
Ph.D., Heidelberg University, Germany

Awards to Faculty on Leave, 1976-1977

Stephan Berko, *Robert S. Boas Professor of Physics*
Guggenheim Foundation Fellowship

John T. Elliff, *Associate Professor of Politics*
Senate Select Committee on Intelligence, Washington,
D.C.

Susan Goldberg, *Assistant Professor of Psychology*
Radcliffe Institute Fellowship

**Louis Lefebvre, *Fred C. Hecht Professor of
International Economics***
York University, Canada

Alan Lelchuk, *Assistant Professor of English*
Guggenheim Foundation Fellowship

Martin A. Levin, *Associate Professor of Politics*
Ford Foundation Grant

**Marvin Meyers, *Harry S. Truman Professor of
American Civilization***
National Endowment for the Humanities Fellowship

**Leonard C. Muellner, *Assistant Professor of
Classics***
American Council of Learned Societies Grant

Peter B. Natchez, *Assistant Professor of Politics*
Hoover Institute Grant

Richard S. Palais, *Professor of Mathematics*
University of California, Santa Cruz

**Marguerite S. Robinson, *Associate Professor of
Anthropology***
Grants from American Institute of Indian Studies and
Indo-U.S. Subcommission on Education and Culture

Steven J. Rosen, *Assistant Professor of Politics*
Australian University

James H. Schulz, *Professor of Welfare Economics*
Fulbright Grant to India

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